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NTISUB/B/138-76/011

LANDSAT

U.S. STANDARD CATALOG

1 NOVEMBER 1976

THROUGH

30 NOVEMBER 1976

GSFC/LU-76/011

GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



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INTRODUCTION

To provide dissemination of information regarding the availability of Landsat imagery, the Image Processing Facility (IPF), located at the Goddard Space Flight Center, publishes a U. S. and Non-U. S. Standard Catalog on a monthly schedule. These catalogs identify imagery which has been processed and input to the data files during the referenced month. The U. S. Standard Catalog includes imagery covering the continental United States, Alaska and Hawaii; the Non-U. S. Catalog identifies all the remaining coverage. Imagery adjacent to the continental U. S. and Alaska borders will normally appear in the U. S. Standard Catalog. As a supplement to these catalogs, the Landsat imagery of one spectral band is available on 16mm microfilm.

In addition to the routine monthly catalogs, the IPF annually publishes a cumulative U. S. and Non-U. S. Standard Catalog for each satellite, covering a year based on the launch date for that satellite. These catalogs include information on all observations acquired and processed by the facility during that year.

Film products for imagery listed in this catalog are available at a nominal price from all three agencies listed below. In addition, the 16mm microfilm can be purchased from the U. S. Department of the Interior (USDI) EROS Data Center and National Oceanic and Atmospheric Administration (NOAA). Digital tapes can be purchased only from the USDI EROS Data Center.

U. S. Department of Agriculture

Aerial Photography Field Office
2505 Parley's Way
Salt Lake City, Utah 84109

U. S. Department of Commerce National Oceanic and Atmospheric Administration

Environment Data Service
Satellite Data Service Branch
D543
World Weather Building
Room 606
Washington, D. C. 20233

U. S. Department of the Interior Geological Survey

User Services Unit
EROS Data Center
Sioux Falls, South Dakota 57198

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APPENDIX

SECTION 1 - STANDARD CATALOG

1.1 MONTHLY CATALOGS

The coverage sections contained in the monthly U.S. and Non-U.S. Standard Catalogs are divided into three parts. Part 1 (see Para. 1.1, A) consists of annotated maps which graphically depict the geographic areas covered by imagery listed in the current catalog. Part 2 (see Para. 1.1, B) contains a computer generated listing organized by observation identification number (ID) and includes pertinent information about each image. Part 3 (see Para. 1.1, C) provides a computer listing of observations organized by longitude/latitude.

A. Satellite Coverage Maps. These maps are segregated by cycle and depict the general location of observations listed in the catalog. The format and data content of these maps are slightly different in the U.S. and Non-U.S. catalogs.

1. U.S. Satellite Coverage Maps. Two separate map formats are presented in this catalog. One map outlines the continental U.S. and depicts the estimated cloud cover along each north to south subsatellite path. Each path is identified by actual orbit number and a cross reference, which matches the orbit number to the initial observation ID for that path. The second map provides an enlarged view of Alaska and Hawaii and displays the portion of an orbital pass for which coverage is available. This map does not include cloud cover estimates or orbit numbers.

2. Non-U.S. Satellite Coverage Map. A world outline map is provided with the portions of an orbital swath for which observations are available graphically displayed. This map is intended solely to inform the user as to whether or not coverage is included in the catalog for his area of interest. It is not intended as a rapid reference to specific observations.

B. Observation Identification Number (ID) Listing. The data format for the observation ID listing is identical in the U.S. and Non-U.S. Catalogs. Observation ID numbers are listed in a sequential manner from smallest number to largest. Associated with each ID number in the list is pertinent information about that observation. A sample catalog page with a description of each data item is shown in Figure 1-1.

1. Sample Observation ID Format. See Figure 1-1.

(1) 20 53 APR 04 75		(2) FROM 02/01/75 TO 02 28 75											
(3)		(4)		(5)		(6)		(7)		(8)		(9)	
OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ILLV.	SUN AZIM.	IMAGE QUALITY RBV	MSS	123	45678		
1943-16381	00000/0000	02/21/75	100	3149	4728N 09815W	25.3	144.8	GGGG					
1943-16383	00000/0000	02/21/75	100	3149	4603N 09849W	26.3	143.9	GGG					
1943-16390	00000/0000	02/21/75	100	3149	4438N 09923W	27.2	143.0	GGG					
1943-16392	00000/0000	02/21/75	70	3149	4313N 09955W	28.2	142.1	GGG					
1943-16395	00000/0000	02/21/75	40	3149	4147N 10026W	29.1	141.2	GGG					
1944-16432	00000/0000	02/22/75	40	3163	4854N 09913W	24.7	145.5	GGGG					
1944-16435	00000/0000	02/22/75	90	3163	4730N 09939W	25.6	144.6	GGGG					
1944-16441	00000/0000	02/22/75	30	3163	4605N 10014W	26.6	143.8	GGGG					

- (3) KEY
- CLOUD COVER
- 0 TO 100 = % OF CLOUD COVER
 - ** NO CLOUD DATA AVAILABLE
- IMAGE QUALITY
- BLANK = BAND NOT PRESENT/REQUESTED
 - G = GOOD P = POOR I = FAIR

Figure 1-1. Observation ID Listing for Standard Catalog

2. Description of Data Items

- Date of catalog listing
 - Period during which imagery was processed
 - Data quality
 - Observation ID
- 1010 15165
- Tens of seconds
Minutes of hour
Hour of day since launch
Day since launch
Satellite number
- (1 or 5 = LANDSAT 1,
2 or 6 = LANDSAT 2);
see Appendix for full
explanation
- RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
 - Date of observation
 - Estimated percent of cloud cover
 - Orbit number
 - Latitude and longitude at observation center (degrees and minutes)
 - Sun elevation and azimuth at observation center
 - Image quality; see key

C. Longitude/Latitude Listing. The data format for the longitude/latitude listing is identical in the U.S. and Non-U.S. Catalogs. This listing contains the same observations as the observation ID listing but organizes them by coordinates, using image center location information for each observation. Observations in this listing will be sorted first by longitude and, within longitude, by latitude. The longitude/latitude listing is arranged in the following manner:

- 180-0 degrees East; 90-0 degrees North and 0-90 degrees South
- followed by
- 0-180 degrees West; 90-0 degrees North and 0-90 degrees South

This listing is intended to be used as a tool for locating specific coverage, and once a specific observation has been identified, pertinent information about it can be found by referring to the ID listing.

Figure 1-2 below shows a sample catalog page with a description of each data item.

1. Sample Longitude/Latitude Format. See Figure 1-2.

① 20-51 APR 68 75		② FROM 02-01 75 TO 02-28 75		③		④		⑤		⑥		⑦	
PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID	QUALITY RVS. MSS	PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID	QUALITY RVS. MSS	PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID	QUALITY RVS. MSS	PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID	QUALITY RVS. MSS	PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23
12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23	80	12 35 28 40 27 N	1940-180 23

Figure 1-2. Coordinate Listing for Standard Catalog

2. Description of Data Items

- ① Date of catalog listing
- ② Period during which imagery was processed
- ③ Longitude and latitude at observation center (degrees and minutes)
- ④ Observation ID (see Fig. 1-1, Para. 1.1.1,B,2)
- ⑤ Estimated percent of cloud cover
- ⑥ Image quality; see key
- ⑦ Data quality

1.2 CUMULATIVE STANDARD CATALOGS

Annually, a cumulative catalog is produced which includes information covering all observations and coordinates acquired and processed by the IPF during that year.

A. Observation ID Listing.

1. Sample Observation ID Format. See Figure 1-1.
2. Description of Data Items. See Paragraph 1.1, B, 2.

B. Coordinate ID Listing. The coordinate ID listing format is expanded to identify observations for which color or digital products have been made.

1. Sample Coordinate ID Format. See Figure 1-3.

(1) 15:36 MAR 11, '74		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
PRINCIPAL POINT OF IMAGE LONG LAT	OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV MSS	DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE QUALITY RBV MSS	PRODUCTS B P P B P C C D D	
07607W 3734N	1295-15144	00000/0000	05/14/73	20	4112	60.2	122.0	GGGG	M	
07607W 3731N	1259-15150	00000/0000	04/08/73	90	3610	50.7	133.2	GGGG	M	
07607W 3731N	1313-15143	00000/0000	06/01/73	80	4363	62.3	116.2	GGGG	M	
07608W 4438N	1027-15231	00000/0000	08/19/72	0	375	50.9	136.9	GGGG	M	
07608W 3731N	1331-15142	00000/0000	06/19/73	100	4614	62.4	112.8	GGGG	M	
07608W 3724N	1349-15141	00000/0000	07/07/73	10	4865	61.2	112.9	PGPP	M	
07609W 4851N	1352-15275	00000/0000	07/10/73	60	4907	56.7	133.9	G		
07609W 3144N	1006-15093	1-10001/0377	07/29/72	100	82	59.7	108.3	PPGG		

(3) KEY:

CLOUD COVER:
00 TO 100 = % OF CLOUD COVER

IMAGE QUALITY
● BLANK = BAND NOT PRESENT/REQUESTED
● G = GOOD P = PGOR F = FAIR

PRODUCTS ALREADY MADE
● R = MADE FROM RBV M = MADE FROM MSS
B = MADE FROM RBV AND MSS

KEY:

CLOUD COVER.
● 0 TO 100 = % OF CLOUD COVER

IMAGE QUALITY

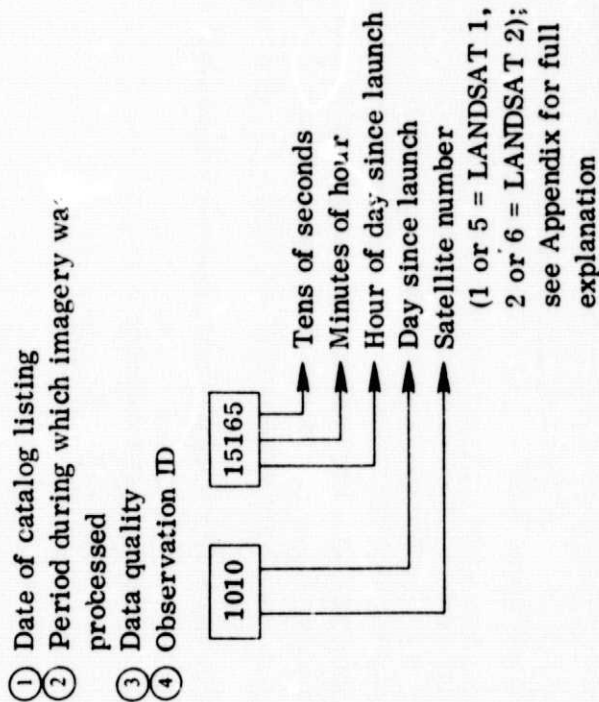
● BLANK = BAND NOT PRESENT/REQUESTED
● G = GOOD P = PGOR F = FAIR

PRODUCTS ALREADY MADE

● R = MADE FROM RBV M = MADE FROM MSS
B = MADE FROM RBV AND MSS

Figure 1-3. Coordinate Listing for Cumulative Standard Catalog

2. Description of Data Items



- ⑤ RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
- ⑥ Date of observation
- ⑦ Estimated percent of cloud cover
- ⑧ Orbit number
- ⑨ Latitude and longitude at observation center (degrees and minutes)
- ⑩ Sun elevation and azimuth at observation center
- ⑪ Image quality; see key
- ⑫ Image/data product availability; see key

SECTION 2 - MICROFILM

2.1 GENERAL

The Image Processing Facility produces a 16 mm microfilm inventory of imagery processed during the referenced month and is organized for convenient use with the Standard Catalog.

As in the case of the Standard Catalog, the microfilm data is divided into U.S. and Non-U.S. segments. Each set of microfilm images is in exact correspondence to a Standard Catalog and can be used in conjunction with the catalog for selecting desired images. A maximum of 1900 images will be contained on one roll of 16 mm x 100 ft microfilm. Because the microfilm images are intended to provide only a summary of the data available, the images are limited to one band each for the RBV and MSS. Although a single observation will produce seven images, in the production of microfilm only the RBV Spectral Band 2 images (0.580 - 0.680 microns) and MSS Spectral Band 2 images (0.6 - 0.7 microns) are reproduced. Each image is a photograph of a 70 mm (-2) image and contains the image identifier and annotation block. See Figure 2-1.

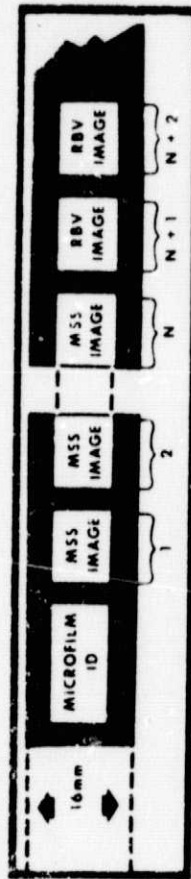


Figure 2-1. Microfilm Format

Microfilm roll numbers contain six digits. The first digit designates the satellite number (blank or 1 - LANDSAT 1, 2 - LANDSAT 2). Example: Roll number 10032 and roll number 1-10034 are both LANDSAT 1 rolls. Roll 2-10032 is a LANDSAT 2 roll. The second digit will be a 1 (for U.S. rolls) or a 2 (for Non-U.S. rolls). The remaining digits are used to number sequentially all microfilm rolls prepared within each group. Example: Roll number 10001 is the first U.S. roll of microfilm produced for LANDSAT 1. Roll number 20004 is the fourth Non-U.S. roll to be produced for LANDSAT 1. The first U.S. roll of microfilm for LANDSAT 2 is number 2-10001.

The microfilm contains two rapid search capabilities to help the user quickly reach the desired scene. They are:

- Code Line Indexing
- Blip Encoding

2.2 CODE LINE INDEXING

The Landsat microfilm images have been annotated with visual code lines to the right of each frame. The visual code lines graduate up the edge of the screen as the film advances and allow the user to advance rapidly to within 20 frames of his desired image. See Figure 2-2.

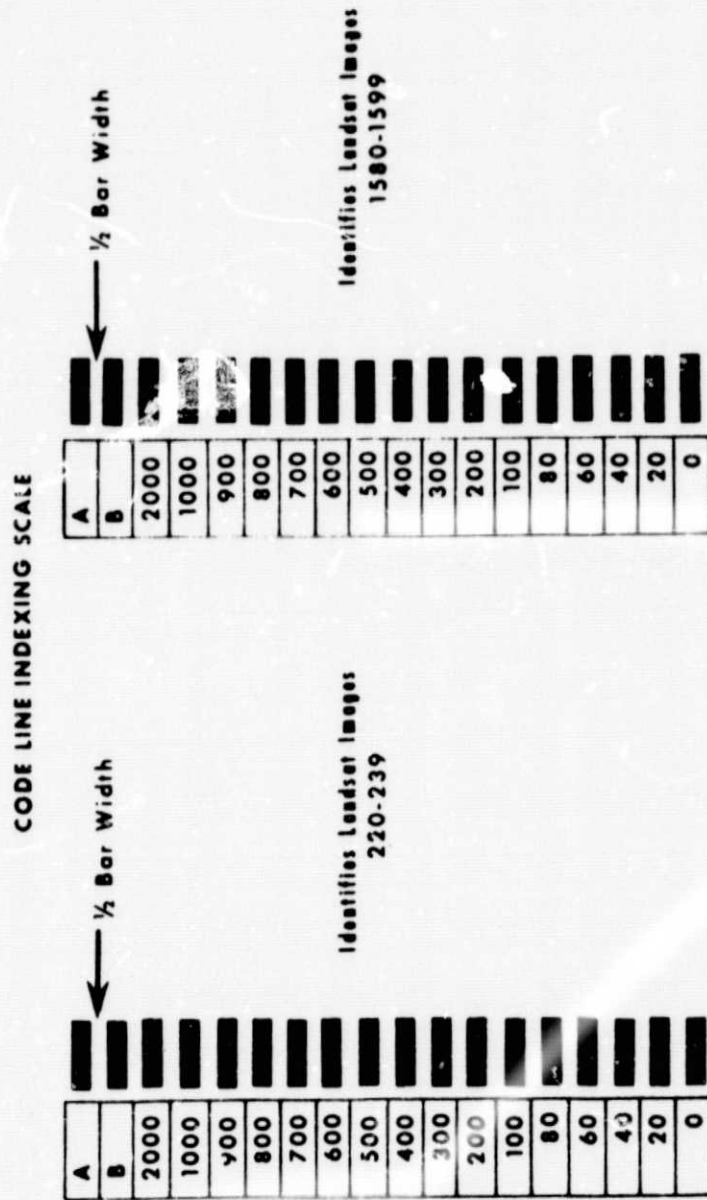


Figure 2-2. Code Line Indexing Scale

To utilize this system, a user must generate a code line indexing bar scale to attach to the face of his viewers. The size and spacing for the bar scale is dependent upon the magnification of his viewer. Landsat imagery is microfilmed at a reduction ratio of 8.5x. To determine the overall length of a scale required for your microfilm reader, multiply 7.4 mm by the enlargement factor of your lens. To determine the bar widths along the bar scale, Multiply 0.24 mm by the same factor. A space between each bar should exist that is 1/2 the bar width.

2.3 BLIP ENCODING

The LANDSAT microfilm images have also been annotated with a blip (black spot) at the base of each frame. This type of encoding is designed for use on readers with an electronic sensing and counting capability or an odometer.

To use the blip encoding retrieval system, the film will have to be placed in a cartridge. When the cartridge is placed in a reader which contains an odometer or has a keyboard attached, the identification of the desired image is obtained from the Standard Catalog (column 6, Microfilm Position) and either punched on the keyboard or read via the odometer as the film advances. Using a reader configured for rapid search and retrieval, the film advances and the frames (blips) are counted by means of a photosensing light. When the appropriate number has been counted, the reader stops and the desired image is projected on the screen. Using a reader with an odometer requires the user to monitor the odometer as the film advances and stop the advance of the film in the vicinity of the required frame.

SECTION 3 - CYCLE CHARTS
SECTION 3.1 - LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 8 days	1	8	24 Jul 72	31 Jul 72	16	279	296	28 Apr 73	15 May 73
1	9	26	1 Aug 72	18 Aug 72	17	297	314	16 May 73	2 Jun 73
2	27	44	19 Aug 72	5 Sep 72	18	315	332	3 Jun 73	20 Jun 73
3	45	62	6 Sep 72	23 Sep 72	19	333	350	21 Jun 73	8 Jul 73
4	63	80	24 Sep 72	11 Oct 72	20	351	368	9 Jul 73	26 Jul 73
5	81	98	12 Oct 72	29 Oct 72	21	369	386	27 Jul 73	13 Aug 73
6	99	116	30 Oct 72	16 Nov 72	22	387	404	14 Aug 73	31 Aug 73
7	117	134	17 Nov 72	4 Dec 72	23	405	422	1 Sep 73	18 Sep 73
8	135	152	5 Dec 72	22 Dec 72	24	423	440	19 Sep 73	6 Oct 73
9	153	170	23 Dec 72	9 Jan 73	25	441	458	7 Oct 73	24 Oct 73
10	171	188	10 Jan 73	27 Jan 73	26	459	476	25 Oct 73	11 Nov 73
11	189	206	28 Jan 73	14 Feb 73	27	477	494	12 Nov 73	29 Nov 73
12	207	224	15 Feb 73	4 Mar 73	28	495	512	30 Nov 73	17 Dec 73
13	225	242	5 Mar 73	22 Mar 73	29	513	530	18 Dec 73	4 Jan 74
14	243	260	23 Mar 73	9 Apr 73	30	531	548	5 Jan 74	22 Jan 74
15	261	278	10 Apr 73	27 Apr 73	31	549	566	23 Jan 74	9 Feb 74

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
32	567	584	10 Feb 74	27 Feb 74	48	855	872	25 Nov 74	12 Dec 74
33	585	602	28 Feb 74	17 Mar 74	49	873	890	13 Dec 74	30 Dec 74
34	603	620	18 Mar 74	4 Apr 74	50	891	908	31 Dec 74	17 Jan 75
35	621	638	5 Apr 74	22 Apr 74	51	909	926	18 Jan 75	4 Feb 75
36	639	656	23 Apr 74	11 May 74	52	927	944	5 Feb 75	22 Feb 75
37	657	674	12 May 74	28 May 74	53	945	962	23 Feb 75	12 Mar 75
38	675	692	29 May 74	15 Jun 74	54	963	980	13 Mar 75	30 Mar 75
39	693	710	16 Jun 74	3 Jul 74	55	981	998	31 Mar 75	17 Apr 75
40	711	728	4 Jul 74	21 Jul 74	56	999	1016	18 Apr 75	5 May 75
41	729	746	22 Jul 74	8 Aug 74	57	1017	1034	6 May 75	23 May 75
42	747	764	9 Aug 74	26 Aug 74	58	1035	1052	24 May 75	10 Jun 75
43	765	782	27 Aug 74	13 Sep 74	59	1053	1070	11 Jun 75	28 Jun 75
44	783	800	14 Sep 74	1 Oct 74	60	1071	1088	29 Jun 75	16 Jul 75
45	801	818	2 Oct 74	19 Oct 74	61	1089	1106	17 Jul 75	3 Aug 75
46	819	836	20 Oct 74	6 Nov 74	62	1107	1124	4 Aug 75	21 Aug 75
47	837	854	7 Nov 74	24 Nov 74	63	1125	1142	22 Aug 75	8 Sep 75

SECTION 3.1 -- LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
64	1143	1160	9 Sep 75	26 Sep 75	80	1431	1448	23 Jun 76	10 Jul 76
65	1161	1178	27 Sep 75	14 Oct 75	81	1449	1466	11 Jul 76	28 Jul 76
66	1179	1196	15 Oct 75	1 Nov 75	82	1467	1484	29 Jul 76	15 Aug 76
67	1197	1214	2 Nov 75	19 Nov 75	83	1485	1502	16 Aug 76	2 Sep 76
68	1215	1232	20 Nov 75	7 Dec 75	84	1503	1520	3 Sep 76	20 Sep 76
69	1233	1250	8 Dec 75	25 Dec 75	85	1521	1538	21 Sep 76	8 Oct 76
70	1251	1268	26 Dec 75	12 Jan 76	86	1539	1556	9 Oct 76	26 Oct 76
71	1269	1286	13 Jan 76	30 Jan 76	87	1557	1574	27 Oct 76	13 Nov 76
72	1287	1304	31 Jan 76	17 Feb 76	88	1575	1592	14 Nov 76	1 Dec 76
73	1305	1322	18 Feb 76	6 Mar 76	89	1593	1610	2 Dec 76	19 Dec 76
74	1323	1340	7 Mar 76	24 Mar 76	90	1611	1628	20 Dec 76	6 Jan 77
75	1341	1358	25 Mar 76	11 Apr 76	91	1629	1646	7 Jan 77	24 Jan 77
76	1359	1376	12 Apr 76	29 Apr 76	92	1647	1664	25 Jan 77	11 Feb 77
77	1377	1394	30 Apr 76	17 May 76	93	1665	1682	12 Feb 77	1 Mar 77
78	1395	1412	18 May 76	4 Jun 76	94	1683	1700	2 Mar 77	19 Mar 77
79	1413	1430	5 Jun 76	22 Jun 76	95	1701	1718	20 Mar 77	6 Apr 77

SECTION 3.2 — LANDSAT 2 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 22 days	1	23	22 Jan 75	13 Feb 75	19	347	364	4 Jan 76	21 Jan 76
1	23	40	14 Feb 75	3 Mar 75	20	365	382	22 Jan 76	8 Feb 76
2	41	58	4 Mar 75	21 Mar 75	21	383	400	9 Feb 76	26 Feb 76
3	59	76	22 Mar 75	8 Apr 75	22	401	418	27 Feb 76	15 Mar 76
4	77	94	9 Apr 75	26 Apr 75	23	419	436	16 Mar 76	2 Apr 76
5	95	112	27 Apr 75	14 May 75	24	437	454	3 Apr 76	20 Apr 76
6	113	130	15 May 75	1 Jun 75	25	455	472	21 Apr 76	8 May 76
7	131	148	2 Jun 75	19 Jun 75	26	473	490	9 May 76	26 May 76
8	149	188	20 Jun 75	7 Jul 75	27	491	508	27 May 76	13 Jun 76
9	167	184	8 Jul 75	25 Jul 75	28	509	526	14 Jun 76	1 Jul 76
10	185	202	26 Jul 75	12 Aug 75	29	527	544	2 Jul 76	19 Jul 76
11	203	220	13 Aug 75	30 Aug 75	30	545	562	20 Jul 76	6 Aug 76
12	221	238	31 Aug 75	17 Sep 75	31	563	580	7 Aug 76	24 Aug 76
13	239	256	18 Sep 75	5 Oct 75	32	581	598	25 Aug 76	11 Sep 76
14	257	274	6 Oct 75	23 Oct 75	33	599	616	12 Sep 76	29 Sep 76
15	275	292	24 Oct 75	10 Nov 75	34	617	634	30 Sep 76	17 Oct 76
16	293	310	11 Nov 75	28 Nov 75	35	635	652	18 Oct 76	4 Nov 76
17	311	328	29 Nov 75	16 Dec 75	36	653	670	5 Nov 76	22 Nov 76
18	329	346	17 Dec 75	3 Jan 76	37	671	688	23 Nov 76	10 Dec 76

SECTION 4

LANDSAT 1 COVERAGE

NO LANDSAT 1 DATA HAS BEEN ACQUIRED DURING NOVEMBER.

SECTION 5

LANDSAT 2 COVERAGE

LANDSAT 2 OBSERVATION ID LISTING

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV. AZIM.	IMAGE QUAL RBV MSS DATA IMAGE 123 45678 MODE GAIN
2644-15520	0000/0000 2-10024/0011	10/27/76	30	4841N	24.3 152.6	GGGG
2644-15523	0000/0000 2-10024/0012	10/27/76	50	4716N	25.4 151.8	GGGG
2644-15525	0000/0000 2-10024/0013	10/27/76	10	4551N	26.5 151.0	GGGG
2644-15532	0000/0000 2-10024/0014	10/27/76	0	4427N	27.6 150.2	GGGG
2644-15534	0000/0000 2-10024/0015	10/27/76	10	4302N	28.7 149.3	GGGG
2644-15541	0000/0000 2-10024/0016	10/27/76	10	4137N	29.7 148.5	GGGG
2644-15543	0000/0000 2-10024/0017	10/27/76	40	4011N	30.8 147.7	GGGG
2644-15550	0000/0000 2-10024/0018	10/27/76	70	3846N	31.8 146.8	GGGG
2644-15552	0000/0000 2-10024/0019	10/27/76	90	3721N	32.8 145.9	GGGG
2644-15555	0000/0000 2-10024/0020	10/27/76	100	3555N	33.9 145.0	GGGG
2644-15561	0000/0000 2-10024/0021	10/27/76	90	3429N	34.9 144.1	GGGG
2644-15564	0000/0000 2-10024/0022	10/27/76	70	3303N	35.8 143.2	GGGG
2644-15570	0000/0000 2-10024/0023	10/27/76	80	3136N	36.8 142.2	GGGG
2644-15573	0000/0000 2-10024/0024	10/27/76	100	3011N	37.8 141.2	GGGG
2644-15575	0000/0000 2-10024/0025	10/27/76	100	2846N	38.7 140.2	GGGG
2644-15582	0000/0000 2-10024/0026	10/27/76	100	2720N	39.6 139.2	GGGG
2644-15584	0000/0000 2-10024/0043	10/27/76	90	2554N	40.6 138.1	GGGG
2644-15591	0000/0000 2-10024/0044	10/27/76	90	2428N	41.4 137.0	GGGG
2644-17345	0000/0000 2-10024/0045	10/27/76	70	5005N	23.2 153.5	GGGG
2644-17352	0000/0000 2-10024/0046	10/27/76	70	4841N	24.3 152.6	GGGG
2644-17354	0000/0000 2-10024/0047	10/27/76	50	4716N	25.4 151.8	GGGG
2644-17361	0000/0000 2-10024/0048	10/27/76	10	4551N	26.5 151.0	GGGG
2644-17363	0000/0000 2-10024/0049	10/27/76	10	4426N	27.6 150.2	GGGG
2644-17370	0000/0000 2-10024/0050	10/27/76	10	4301N	28.7 149.4	GGGG
2644-17372	0000/0000 2-10024/0051	10/27/76	10	4136N	29.7 148.5	GGGG
2644-17375	0000/0000 2-10024/0052	10/27/76	10	4011N	30.8 147.7	GGGG
2644-17381	0000/0000 2-10024/0053	10/27/76	0	3845N	31.8 146.8	GGGG
2644-17384	0000/0000 2-10024/0054	10/27/76	0	3719N	32.8 145.9	GGGG
2644-17390	0000/0000 2-10024/0055	10/27/76	0	3554N	33.8 145.1	GGGG
2644-17393	0000/0000 2-10024/0056	10/27/76	0	3429N	34.8 144.1	GGGG
2645-14145	0000/0000 2-10024/0083	10/28/76	70	4717N	25.1 151.9	GGG
2645-15574	0000/0000 2-10024/0084	10/28/76	20	4841N	24.0 152.8	GGGG
2645-15581	0000/0000 2-10024/0085	10/28/76	40	4716N	25.1 151.9	GGGG
2645-15583	0000/0000 2-10024/0086	10/28/76	10	4551N	26.2 151.1	GGGG
2645-15590	0000/0000 2-10024/0087	10/28/76	10	4426N	27.3 150.3	GGGG
2645-15592	0000/0000 2-10024/0088	10/28/76	0	4301N	28.4 149.5	GGGG

KEYS: CLOUD COVER X 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM REEL NO./ POSITION IN REEL RBV	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV. AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN
2645-15095	30000/0000 2-10024/0089	10/28/76	10	8993 4137N	29.4 148.7	GGGG		
2645-15001	30000/0000 2-10024/0090	10/28/76	10	8993 4012N	30.5 147.8	GGGG		
2645-16004	30000/0000 2-10024/0091	10/28/76	10	8993 3847N	31.5 147.0	GGGG		
2645-16010	30000/0000 2-10024/0092	10/28/76	10	8993 3722N	32.5 146.1	GGGG		
2645-16013	30000/0000 2-10024/0093	10/28/76	10	8993 3556N	33.6 145.2	GGGG		
2645-16015	30000/0000 2-10024/0094	10/28/76	50	8993 3430N	34.6 144.3	GGGF		
2645-16022	30000/0000 2-10024/0095	10/28/76	80	8993 3303N	35.6 143.4	GGGG		
2645-16024	30000/0000 2-10024/0096	10/28/76	90	8993 3137N	36.5 142.5	GGGG		
2645-16031	30000/0000 2-10024/0097	10/28/76	100	8993 3011N	37.5 141.5	GGGG		
2645-16033	30000/0000 2-10024/0098	10/28/76	100	8993 2845N	38.4 140.5	GGGG		
2645-16040	30000/0000 2-10024/0097	10/28/76	100	8993 2720N	39.4 139.4	GGGG		
2645-16042	30000/0000 2-10024/0058	10/28/76	100	8993 2555N	40.3 138.4	GGGG		
2645-16045	30000/0000 2-10024/0059	10/28/76	90	8993 2429N	41.2 137.3	GGGG		
2645-17403	30000/0000 2-10024/0060	10/28/76	40	8994 5006N	114.11 22.9 153.6	GGGG		
2645-17410	30000/0000 2-10024/0061	10/28/76	20	8994 4841N	114.50 24.0 152.8	GGGG		
2645-17412	30000/0000 2-10024/0062	10/28/76	10	8994 4716N	115.26 25.1 152.0	GGGG		
2645-17415	30000/0000 2-10024/0063	10/28/76	10	8994 4551N	116.01 26.2 151.1	GGGG		
2645-17421	30000/0000 2-10024/0064	10/28/76	10	8994 4427N	116.34 27.3 150.3	GGGG		
2645-17424	30000/0000 2-10024/0065	10/28/76	0	8994 4302N	117.07 28.3 149.5	GGGG		
2645-17430	30000/0000 2-10024/0066	10/28/76	0	8994 4136N	117.38 29.4 148.7	GGG		
2645-17433	30000/0000 2-10024/0067	10/28/76	0	8994 4010N	118.07 30.4 147.9	GGGG		
2645-17435	30000/0000 2-10024/0068	10/28/76	0	8994 3845N	118.36 31.5 147.0	GGGG		
2645-17442	30000/0000 2-10024/0069	10/28/76	0	8994 3720N	119.04 32.5 146.1	GGGG		
2645-17444	30000/0000 2-10024/0070	10/28/76	0	8994 3554N	119.31 33.5 145.3	GGGG		
2645-17451	30000/0000 2-10024/0071	10/28/76	0	8994 3429N	119.57 34.5 144.4	GGGG		
2646-14203	30000/0000 2-10024/0027	10/29/76	90	9006 4716N	0513 24.8 152.1	FFGG		
2646-14210	30000/0000 2-10024/0028	10/29/76	40	9006 4551N	0648 25.9 151.3	GFFG		
2646-14212	30000/0000 2-10024/0029	10/29/76	50	9006 4426N	0621 27.0 150.5	GGGG		
2646-14215	30000/0000 2-10024/0030	10/29/76	50	9006 4302N	0653 28.1 149.6	GGGG		
2646-16032	30000/0000 2-10024/0031	10/29/76	80	9007 4841N	0902 23.7 152.9	GGGG		
2646-16035	30000/0000 2-10024/0032	10/29/76	10	9007 4717N	0910 24.8 152.1	FFGG		
2646-16041	30000/0000 2-10024/0033	10/29/76	10	9007 4552N	0913 25.9 151.3	GGGG		
2646-16044	30000/0000 2-10024/0034	10/29/76	20	9007 4427N	0921 27.0 150.5	GGGG		
2646-16050	30000/0000 2-10024/0035	10/29/76	30	9007 4302N	0924 28.0 149.7	GGGG		
2646-16053	30000/0000 2-10024/0035	10/29/76	90	9007 4136N	0931 29.1 148.8	GGGG		
2646-16055	30000/0000 2-10024/0037	10/29/76	90	9007 4012N	0934 30.2 148.0	GGGG		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTOURUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM POSITION IN ROLL RBV	ROLL NO./ POSITION IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	SUBBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN F'EV.	SUN AZIM.	IMAGE-QUAL MSS	DATA MSS	MODE GAIN
2646-16062	00000/0000	2-10024/0038	10/29/76	90	9007	3847N	09412W	31.2	147.2	GGG		
2646-16064	00000/0000	2-10024/0039	10/29/76	100	9007	3721N	09441W	32.2	146.3	GGG		
2646-16071	00000/0000	2-10024/0040	10/29/76	100	9007	3555N	09508W	33.3	145.4	GGG		
2646-16073	00000/0000	2-10024/0041	10/29/76	100	9007	3430N	09534W	34.3	144.5	GGG		
2646-16080	00000/0000	2-10024/0042	10/29/76	100	9007	3304N	09600W	35.3	143.6	GGG		
2646-16082	00000/0000	2-10024/0118	10/29/76	100	9007	3138N	09625W	36.3	142.7	GGG		
2646-16085	00000/0000	2-10024/0119	10/29/76	100	9007	3013N	09649W	37.2	141.7	GGG		
2646-16091	00000/0000	2-10024/0120	10/29/76	100	9007	2847N	09714W	38.2	140.7	GGG		
2646-16094	00000/0000	2-10024/0121	10/29/76	100	9007	2721N	09737W	39.1	139.7	GGG		
2646-16100	00000/0000	2-10024/0122	10/29/76	100	9007	2555N	09801W	40.0	138.6	GGG		
2646-17462	00000/0000	2-10024/0123	10/29/76	60	9008	5005N	11537W	22.6	153.7	GGG		
2646-17464	00000/0000	2-10024/0124	10/29/76	50	9008	4841N	11615W	23.7	152.9	GGG		
2646-17471	00000/0000	2-10024/0125	10/29/76	70	9008	4717N	11652W	24.8	152.1	GGG		
2646-17473	00000/0000	2-10024/0126	10/29/76	60	9008	4552N	11727W	25.9	151.3	GGG		
2646-17480	00000/0000	2-10024/0127	10/29/76	90	9008	4427N	11800W	27.0	150.5	GGG		
2646-17482	00000/0000	2-10024/0128	10/29/76	60	9008	4301N	11832W	28.0	149.7	GGG		
2646-17485	00000/0000	2-10024/0129	10/29/76	40	9008	4135N	11903W	29.1	148.9	GGG		
2646-17491	00000/0000	2-10024/0130	10/29/76	40	9008	4011N	11933W	30.1	148.0	GGG		
2646-17494	00000/0000	2-10024/0131	10/29/76	20	9008	3846N	12002W	31.2	147.2	GGG		
2646-17500	00000/0000	2-10024/0132	10/29/76	10	9008	3720N	12030W	32.2	146.3	GGG		
2646-17503	00000/0000	2-10024/0133	10/29/76	20	9008	3554N	12057W	33.2	145.5	GGG		
2646-17505	00000/0000	2-10024/0134	10/29/76	70	9008	3429N	12123W	34.3	144.6	GGG		
2647-14262	00000/0000	2-10024/0167	10/30/76	30	9020	4717N	06639W	24.5	152.2	GGG		
2647-14264	00000/0000	2-10024/0168	10/30/76	10	9020	4552N	06714W	25.6	151.4	GGG		
2647-14271	00000/0000	2-10024/0169	10/30/76	10	9020	4427N	06747W	26.7	150.6	GGG		
2647-14273	00000/0000	2-10024/0170	10/30/76	10	9020	4302N	06819W	27.8	149.8	GGG		
2647-14280	00000/0000	2-10024/0171	10/30/76	10	9020	4137N	06851W	28.8	149.0	GGG		
2647-14282	00000/0000	2-10024/0172	10/30/76	10	9020	4011N	06922W	29.9	148.2	GGG		
2647-16091	00000/0000	2-10024/0173	10/30/76	90	9021	4841N	09152W	23.4	153.0	GGG		
2647-16093	00000/0000	2-10024/0174	10/30/76	70	9021	4716N	09228W	24.5	152.2	GGG		
2647-16100	00000/0000	2-10024/0175	10/30/76	30	9021	4551N	09303W	25.6	151.4	GFG		
2647-16102	00000/0000	2-10024/0176	10/30/76	30	9021	4426N	09336W	26.7	150.6	GGG		
2647-16105	00000/0000	2-10024/0177	10/30/76	50	9021	4302N	09408W	27.7	149.8	GGG		
2647-16111	00000/0000	2-10024/0178	10/30/76	90	9021	4136N	09439W	28.8	149.0	GGG		
2647-16114	00000/0000	2-10024/0179	10/30/76	90	9021	4011N	09509W	29.9	148.2	GGG		
2647-16120	00000/0000	2-10024/0146	10/30/76	90	9021	3846N	09538W	30.9	147.3	GGG		

KEYS: CLOUD COVER X 0 TO 100 = X CLOUD COVER.
 IMAGE QUALITY BLANKS=BLANK NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM POSITION IN ROLL RBV	ROLL NO./ POSITION IN ROLL MSS	DATE AQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV. AZIM.	IMAGE-QUAL RBV MSS 123 45678 MODE	MSS DATA IMAGE GAIN
2647-16123	00000/0000	2-10024/0147	10/30/76	90	9021	3721N 09607W	31.9 146.5	GGGG	
2647-16125	00000/0000	2-10024/0148	10/30/76	90	9021	3555N 02634W	33.0 145.6	GGGG	
2647-16132	00000/0000	2-10024/0149	10/30/76	90	9021	3429N 09700W	34.0 144.7	GGGG	
2647-16134	00000/0000	2-10024/0150	10/30/76	40	9021	3303N 09726W	35.0 143.8	FGGG	
2647-16141	00000/0000	2-10024/0151	10/30/76	0	9021	3139N 09752W	36.0 142.9	GGGG	
2647-16143	00000/0000	2-10024/0152	10/30/76	0	9021	3013N 09817W	36.9 142.0	GGGG	
2647-16150	00000/0000	2-10024/0153	10/30/76	0	9021	2846N 09842W	37.9 141.0	GGGG	
2647-16152	00000/0000	2-10024/0154	10/30/76	0	9021	2721N 09906W	38.8 140.0	GGGG	
2647-16155	00000/0000	2-10024/0155	10/30/76	0	9021	2555N 09928W	39.8 138.9	GGGG	
2647-17520	00000/0000	2-10024/0156	10/30/76	90	9022	5005N 11703W	22.3 153.8	GGGG	
2647-17522	00000/0000	2-10024/0157	10/30/76	80	9022	4841N 11742W	23.4 153.0	GGGG	
2647-17525	00000/0000	2-10024/0158	10/30/76	70	9022	4716N 11818W	24.5 152.2	GGGG	
2647-17531	00000/0000	2-10024/0159	10/30/76	50	9022	4552N 11853W	25.6 151.4	GGGG	
2647-17534	00000/0000	2-10024/0160	10/30/76	60	9022	4426N 11926W	26.7 150.6	GGGG	
2647-17540	00000/0000	2-10024/0161	10/30/76	40	9022	4301N 11958W	27.7 149.8	GGGG	
2647-17543	00000/0000	2-10024/0162	10/30/76	0	9022	4136N 12029W	28.8 149.0	GGGG	
2647-17545	00000/0000	2-10024/0163	10/30/76	0	9022	4011N 12059W	29.8 148.2	PGGG	
2647-17552	00000/0000	2-10024/0164	10/30/76	10	9022	3846N 12128W	30.9 147.4	GGGG	
2647-17554	00000/0000	2-10024/0165	10/30/76	50	9022	3721N 12157W	31.9 146.5	GGGG	
2647-17561	00000/0000	2-10024/0166	10/30/76	70	9022	3555N 12225W	33.0 145.6	GGGG	
2648-14320	00000/0000	2-10024/0205	10/31/76	100	9034	4718N 06806W	24.2 152.3	GGGF	
2648-14322	00000/0000	2-10024/0206	10/31/76	90	9034	4553N 06841W	25.3 151.5	GGGF	
2648-14325	00000/0000	2-10024/0207	10/31/76	90	9034	4428N 06914W	26.4 150.7	GGGF	
2648-14331	00000/0000	2-10024/0208	10/31/76	100	9034	4303N 06946W	27.5 149.9	GGGG	
2648-14334	00000/0000	2-10024/0210	10/31/76	90	9034	4138N 07017W	28.5 149.1	GGGG	
2648-14340	00000/0000	2-10024/0211	10/31/76	90	9034	4012N 07047W	29.6 148.3	GGGG	
2648-14343	00000/0000	2-10024/0212	10/31/76	80	9034	3846N 07116W	30.6 147.5	GGGG	
2648-14345	00000/0000	2-10024/0213	10/31/76	70	9034	3721N 07144W	31.7 146.7	GGGG	
2648-14352	00000/0000	2-10024/0225	10/31/76	70	9034	3556N 07211W	32.7 145.8	GGGG	
2648-16145	00000/0000	2-10024/0226	10/31/76	40	9035	4841N 09319W	23.1 153.1	GGGG	
2648-16154	00000/0000	2-10024/0227	10/31/76	0	9035	4552N 09430W	25.3 151.5	PGGG	
2648-16160	00000/0000	2-10024/0227	10/31/76	10	9035	4427N 09503W	26.4 150.7	GGGG	
2648-16163	00000/0000	2-10024/0228	10/31/76	10	9035	4302N 09536W	27.4 149.9	GGGG	
2648-16165	00000/0000	2-10024/0229	10/31/76	10	9035	4137N 09607W	28.5 149.1	GGGG	
2648-16172	00000/0000	2-10024/0230	10/31/76	0	9035	4011N 09637W	29.6 148.3	GGGG	
2648-16174	00000/0000	2-10024/0231	10/31/76	0	9035	3845N 09706W	30.6 147.5	GGGG	

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

OBSSER ID	DATE ACQUIRED	MICROFILM POSITION IN ROLL RBV	RAIL NO./ IN ROLL MSS	CLOUD COVER NUMBER	DATE ACQUIRED	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS DATA 123 45678 MODE	MSS IM/GE GAIN
2648-16181	10/31/76	2-10024/0232	2-10024/0232	U	10/31/76	3720N	09734W	31.7	146.7	FFGG	
2648-16183	10/31/76	2-10024/0233	2-10024/0233	10	10/31/76	3554N	09801W	32.7	145.8	GGGG	
2648-16190	10/31/76	2-10024/0234	2-10024/0234	10	10/31/76	3428N	09827W	33.7	144.9	GGGG	
2648-16192	10/31/76	2-10024/0235	2-10024/0235	U	10/31/76	3303N	09853W	34.7	144.0	GGGG	
2648-16195	10/31/76	2-10024/0236	2-10024/0236	U	10/31/76	3035	09918W	35.7	143.1	GGGG	
2648-16201	10/31/76	2-10024/0237	2-10024/0237	U	10/31/76	3012N	09942W	36.7	142.2	GGGG	
2648-16204	10/31/76	2-10024/0238	2-10024/0238	U	10/31/76	2847N	10006W	37.6	141.2	GFGG	
2648-16210	10/31/76	2-10024/0239	2-10024/0239	10	10/31/76	2720N	10029W	38.6	140.2	GGGG	
2648-16213	10/31/76	2-10024/0240	2-10024/0240	50	10/31/76	2554N	10052W	39.5	139.2	GGGG	
2648-17574	10/31/76	2-10024/0241	2-10024/0241	90	10/31/76	5005N	11828W	22.0	153.9	GGGG	
2648-17580	10/31/76	2-10024/0242	2-10024/0242	90	10/31/76	4841N	11906W	23.1	153.1	GGGG	
2648-17583	10/31/76	2-10024/0243	2-10024/0243	70	10/31/76	4716N	11942W	24.2	152.3	GGGG	
2648-17585	10/31/76	2-10024/0244	2-10024/0244	70	10/31/76	4552N	12016W	25.3	151.5	GGGG	
2648-17592	10/31/76	2-10024/0245	2-10024/0245	70	10/31/76	4427N	12049W	26.3	150.7	GGGG	
2648-17594	10/31/76	2-10024/0246	2-10024/0246	80	10/31/76	4302N	12121W	27.4	150.0	GGGG	
2648-18001	10/31/76	2-10024/0247	2-10024/0247	60	10/31/76	4138N	12153W	28.5	149.2	GGGG	
2648-18003	10/31/76	2-10024/0248	2-10024/0248	40	10/31/76	4012N	12224W	29.6	148.3	GGGG	
2648-18010	10/31/76	2-10024/0249	2-10024/0249	20	10/31/76	3847N	12254W	30.6	147.5	GGGG	
2648-18012	10/31/76	2-10024/0250	2-10024/0250	20	10/31/76	3721N	12322W	31.6	146.7	GGGG	
2649-14374	11/01/76	2-10024/0251	2-10024/0251	100	11/01/76	4717N	06931W	23.9	152.4	GGGG	
2649-14380	11/01/76	2-10024/0252	2-10024/0252	90	11/01/76	4553N	07006W	25.0	151.6	GGGG	
2649-14383	11/01/76	2-10024/0253	2-10024/0253	80	11/01/76	4428N	07039W	26.1	150.9	GGGG	
2649-14385	11/01/76	2-10024/0254	2-10024/0254	60	11/01/76	4301N	07111W	27.2	150.1	GGGG	
2649-14392	11/01/76	2-10024/0255	2-10024/0255	20	11/01/76	4136N	07143W	28.2	149.3	GGGG	
2649-14394	11/01/76	2-10024/0256	2-10024/0256	50	11/01/76	4011N	07213W	29.3	148.5	GGGG	
2649-14401	11/01/76	2-10024/0257	2-10024/0257	80	11/01/76	3846N	07242W	30.3	147.7	GGGG	
2649-14403	11/01/76	2-10024/0258	2-10024/0258	90	11/01/76	3721N	07310W	31.4	146.8	GGGG	
2649-14410	11/01/76	2-10024/0259	2-10024/0259	80	11/01/76	3555N	07337W	32.4	146.0	GGGG	
2649-14412	11/01/76	2-10024/0260	2-10024/0260	70	11/01/76	3430N	07404W	33.4	145.1	GGGG	
2649-14415	11/01/76	2-10024/0261	2-10024/0261	80	11/01/76	3305N	07430W	34.4	144.2	GGGG	
2649-14421	11/01/76	2-10024/0262	2-10024/0262	50	11/01/76	3139N	07455W	35.4	143.3	GGGG	
2649-16201	11/01/76	2-10024/0263	2-10024/0263	10	11/01/76	5006N	09406W	21.7	154.0	GGGG	
2649-16203	11/01/76	2-10024/0264	2-10024/0264	10	11/01/76	4841N	09445W	22.8	153.2	GGGG	
2649-16210	11/01/76	2-10024/0265	2-10024/0265	10	11/01/76	4716N	09521W	23.9	152.4	GGGG	
2649-16212	11/01/76	2-10024/0266	2-10024/0266	10	11/01/76	4552N	09556W	25.0	151.6	GGGG	
2649-16215	11/01/76	2-10024/0267	2-10024/0267	10	11/01/76	4427N	09629W	26.1	150.9	GGG	

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	SARBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MADE	MSS GAIN
2649-16221	00000/0000 2-10024/0268	11/01/76	30	9049	4301N	09701W	27.1	150.1	GGGG		
2649-16224	00000/0000 2-10024/0269	11/01/76	20	9049	4136N	09732W	28.2	149.3	GGGG		
2649-16230	00000/0000 2-10024/0270	11/01/76	10	9049	4012N	09802W	29.3	148.5	GGGG		
2649-16233	00000/0000 2-10024/0271	11/01/76	10	9049	3846N	09832W	30.3	147.7	GGGG		
2649-16235	00000/0000 2-10024/0272	11/01/76	0	9049	3721N	09900W	31.4	146.8	GGGG		
2649-16242	00000/0000 2-10024/0273	11/01/76	0	9049	3556N	09928W	32.4	146.0	GGGG		
2649-16244	00000/0000 2-10024/0274	11/01/76	10	9049	3430N	09954W	33.4	145.1	GGGG		
2649-16251	00000/0000 2-10024/0275	11/01/76	0	9049	3304N	10020W	34.4	144.2	GGGG		
2649-16253	00000/0000 2-10024/0276	11/01/76	10	9049	3139N	10044W	35.4	143.3	GGGG		
2649-16260	00000/0000 2-10024/0277	11/01/76	10	9049	3014N	10109W	36.4	142.4	GGGG		
2649-16262	00000/0000 2-10024/0278	11/01/76	30	9049	2848N	10133W	37.4	141.4	GGGG		
2649-16265	00000/0000 2-10024/0279	11/01/76	70	9049	2721N	10157W	38.3	140.4	GGGG		
2649-18032	00000/0000 2-10024/0280	11/01/76	20	9050	5005N	11956W	21.7	154.0	GGGG		
2649-18035	00000/0000 2-10024/0281	11/01/76	10	9050	4841N	12035W	22.8	153.2	GGGG		
2649-18041	00000/0000 2-10024/0282	11/01/76	10	9050	4715N	12111W	23.9	152.4	GGGG		
2649-18044	00000/0000 2-10024/0283	11/01/76	70	9050	4550N	12146W	25.0	151.7	GGGG		
2649-18050	00000/0000 2-10024/0284	11/01/76	80	9050	4426N	12220W	26.0	150.9	GGGG		
2649-18053	00000/0000 2-10024/0285	11/01/76	90	9050	4302N	12252W	27.1	150.1	GGGG		
2649-18055	00000/0000 2-10024/0286	11/01/76	70	9050	4137N	12324W	28.2	149.3	GGGG		
2649-18062	00000/0000 2-10024/0290	11/01/76	60	9050	4011N	12354W	29.3	148.5	GG		
2649-18064	00000/0000 2-10024/0287	11/01/76	50	9050	3846N	12423W	30.3	147.7	GGGG		
2649-18071	00000/0000 2-10024/0288	11/01/76	80	9050	3720N	12451W	31.4	146.9	GGGG		
2649-18073	00000/0000 2-10024/0289	11/01/76	90	9050	3555N	12518W	32.4	146.0	GGGG		
2650-14432	00000/0000 2-10024/0180	11/02/76	90	9062	4717N	07057W	23.6	152.5	GGGG		
2650-14435	00000/0000 2-10024/0181	11/02/76	80	9062	4552N	07132W	24.7	151.8	GFGF		
2650-14441	00000/0000 2-10024/0182	11/02/76	60	9062	4427N	07206W	25.8	151.0	GGGG		
2650-14444	00000/0000 2-10024/0183	11/02/76	10	9062	4302N	07239W	26.9	150.2	GGGG		
2650-14450	00000/0000 2-10024/0184	11/02/76	0	9062	4136N	07311W	27.9	149.4	GGGG		
2650-14453	00000/0000 2-10024/0185	11/02/76	10	9062	4011N	07341W	29.0	148.6	GGGG		
2650-14455	00000/0000 2-10024/0186	11/02/76	10	9062	3846N	07410W	30.1	147.8	GGGG		
2650-14462	00000/0000 2-10024/0187	11/02/76	10	9062	3720N	07438W	31.1	147.0	GGGG		
2650-14464	00000/0000 2-10024/0188	11/02/76	20	9062	3555N	07505W	32.1	146.2	GGGG		
2650-14471	00000/0000 2-10024/0189	11/02/76	50	9062	3430N	07531W	33.2	145.3	GGGG		
2650-14473	00000/0000 2-10024/0190	11/02/76	70	9062	3304N	07557W	34.2	144.4	GGGG		
2650-14480	00000/0000 2-10024/0191	11/02/76	60	9062	3139N	07622W	35.2	143.5	FGGG		
2650-14482	00000/0000 2-10024/0192	11/02/76	80	9062	3013N	07647W	36.2	142.6	GGGG		

H H H

KEYS: CLOUD COVER % 0 TO 100 = X CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MADE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTOURUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL PNT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS DATA 123 45678 MODE	MSS IMAGE GAIN
2650-14485	00000/0000 2-10024/0193	11/02/76	40	2848N	0771W	37.1	141.6	GGGG	
2650-14491	00000/0000 2-10024/0194	11/02/76	50	2722N	0773W	38.1	140.7	GGGG	
2650-16264	00000/0000 2-10024/0291	11/02/76	0	4717N	0964W	23.6	152.5	GGGG	
2650-16270	00000/0000 2-10024/0292	11/02/76	10	4552N	0972W	24.7	151.8	GGGG	
2650-16273	00000/0000 2-10024/0293	11/02/76	10	4427N	0975W	25.8	151.0	GGGG	
2650-16275	00000/0000 2-10024/0294	11/02/76	0	4301N	0982W	26.8	150.2	GGGG	
2650-16282	00000/0000 2-10024/0295	11/02/76	20	4136N	0985W	27.9	149.4	GGG	
2650-16284	00000/0000 2-10024/0296	11/02/76	80	4011N	0992W	29.0	148.6	GGGG	
2650-16291	00000/0000 2-10024/0297	11/02/76	70	3846N	0995W	30.0	147.8	GGGG	
2650-16293	00000/0000 2-10024/0298	11/02/76	10	3721N	1002W	31.1	147.0	GGGG	
2650-16300	00000/0000 2-10024/0299	11/02/76	0	3555N	1005W	32.1	146.2	GGGG	
2650-16302	00000/0000 2-10024/0300	11/02/76	0	3430N	1012W	33.1	145.3	GGGG	
2650-16305	00000/0000 2-10024/0301	11/02/76	0	3304N	1014W	34.2	144.4	GGGG	
2650-16311	00000/0000 2-10024/0302	11/02/76	0	3139N	1021W	35.2	143.5	GGGG	
2650-16314	00000/0000 2-10024/0303	11/02/76	0	3012N	1023W	36.1	142.6	GGGG	
2650-16320	00000/0000 2-10024/0304	11/02/76	10	2846N	1025W	37.1	141.7	GGGG	
2650-16323	00000/0000 2-10024/0305	11/02/76	0	2720N	1032W	38.1	140.7	GGGG	
2650-18093	00000/0000 2-10024/0306	11/02/76	40	4841N	1215W	22.5	153.3	GGGG	
2650-18095	00000/0000 2-10024/0307	11/02/76	90	4717N	1223W	23.6	152.5	GGGG	
2650-18102	00000/0000 2-10024/0308	11/02/76	90	4552N	1231W	24.7	151.8	GGGG	
2650-18104	00000/0000 2-10024/0309	11/02/76	80	4427N	1234W	25.7	151.0	GGGG	
2650-18111	00000/0000 2-10024/0310	11/02/76	70	4301N	1241W	26.8	150.2	GGGG	
2650-18113	00000/0000 2-10024/0311	11/02/76	70	4137N	1244W	27.9	149.4	GGGG	
2650-18120	00000/0000 2-10024/0312	11/02/76	50	4011N	1251W	29.0	148.6	GGGG	
2651-14490	00000/0000 2-10024/0343	11/03/76	90	4717N	0722W	23.3	152.6	GGGG	
2651-14493	00000/0000 2-10024/0344	11/03/76	60	4552N	0725W	24.4	151.9	GGGG	
2651-14495	00000/0000 2-10024/0345	11/03/76	60	4427N	0732W	25.5	151.1	GGGG	
2651-14502	00000/0000 2-10024/0346	11/03/76	90	4302N	0740W	26.6	150.3	GGGG	
2651-14504	00000/0000 2-10024/0347	11/03/76	90	4137N	0743W	27.7	149.5	GGGG	
2651-14511	00000/0000 2-10024/0348	11/03/76	90	4012N	0750W	28.7	148.8	GGGG	
2651-14513	00000/0000 2-10024/0349	11/03/76	50	3846N	0753W	29.8	148.0	GGGG	
2651-14520	00000/0000 2-10024/0350	11/03/76	30	3721N	0760W	30.8	147.1	GGGG	
2651-14522	00000/0000 2-10024/0351	11/03/76	60	3556N	0762W	31.9	146.3	GGGG	
2651-14525	00000/0000 2-10024/0352	11/03/76	90	3430N	0765W	32.9	145.5	GGGG	
2651-14531	00000/0000 2-10024/0353	11/03/76	90	3304N	0772W	33.9	144.6	GGGG	
2651-14534	00000/0000 2-10024/0354	11/03/76	90	3139N	0777W	34.9	143.7	GGGG	

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTOURUS US
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	PRINCIPAL POINT OF IMAGE	SUN ELEV.	SUN AZIM.	IMAGE-QUAL	MSS DATA	MSS MADE	GAIN
				LAT	LONG					
2651-14540	30000/0000 2-10024/0355	11/03/76	90	3013N	07812W	35.9	142.8	GGGG		
2651-14543	30000/0000 2-10024/0356	11/03/76	90	2847N	07836W	36.9	141.8	GGGG		
2651-14545	30000/0000 2-10024/0357	11/03/76	90	2721N	07900W	37.8	140.9	GGGG		
2651-14552	30000/0000 2-10024/0358	11/03/76	90	2555N	07923W	38.8	139.9	GGGG		
2651-14554	30000/0000 2-10024/0359	11/03/76	80	2429N	07946W	39.7	138.8	GGGG		
2652-14542	30000/0000 2-10024/0360	11/04/76	100	4841N	07315W	21.9	153.5	GGGG		
2652-14545	30000/0000 2-10024/0361	11/04/76	100	4716N	07351W	23.0	152.7	GGGG		
2652-14551	30000/0000 2-10024/0362	11/04/76	90	4551N	07426W	24.1	152.0	GGGG		
2652-14554	30000/0000 2-10024/0363	11/04/76	90	4426N	07459W	25.2	151.2	GGGG		
2652-14560	30000/0000 2-10024/0364	11/04/76	90	4301N	07531W	26.3	150.4	GGGG		
2652-14563	30000/0000 2-10024/0365	11/04/76	70	4135N	07601W	27.4	149.7	GGGG		
2652-14565	30000/0000 2-10024/0366	11/04/76	40	4011N	07630W	28.4	148.9	GGGG		
2652-14572	30000/0000 2-10024/0367	11/04/76	50	3846N	07659W	29.5	148.1	GGGG		
2652-14574	30000/0000 2-10024/0368	11/04/76	30	3720N	07727W	30.5	147.3	GGGG		
2652-14581	30000/0000 2-10024/0369	11/04/76	0	3555N	07754W	31.6	146.5	GGGG		
2652-14583	30000/0000 2-10024/0370	11/04/76	0	3429N	07821W	32.6	145.6	GGGG		
2652-14590	30000/0000 2-10024/0371	11/04/76	0	3303N	07847W	33.6	144.8	GGGG		
2652-14592	30000/0000 2-10024/0372	11/04/76	0	3138N	07913W	34.6	143.9	GGGG		
2652-14595	30000/0000 2-10024/0373	11/04/76	10	3012N	07939W	35.6	143.1	GGGG		
2652-15001	30000/0000 2-10024/0374	11/04/76	50	2845N	08004W	36.6	142.0	GGGG		
2652-15004	30000/0000 2-10024/0375	11/04/76	50	2719N	08028W	37.6	141.1	GGGG		
2652-15010	30000/0000 2-10024/0376	11/04/76	30	2553N	08051W	38.5	140.1	GGGG		
2652-15013	30000/0000 2-10024/0377	11/04/76	40	2427N	08114W	39.4	139.1	GGGF		
2653-15000	30000/0000 2-10024/0404	11/05/76	80	4840N	07439W	21.6	153.6	GGGG		
2653-15003	30000/0000 2-10024/0405	11/05/76	80	4716N	07515W	22.7	152.8	GGGG		
2653-15005	30000/0000 2-10024/0406	11/05/76	70	4551N	07550W	23.8	152.1	GGGG		
2653-15012	30000/0000 2-10024/0407	11/05/76	60	4426N	07624W	24.9	151.3	GGGG		
2653-15014	30000/0000 2-10024/0408	11/05/76	60	4301N	07656W	26.0	150.5	GGGG		
2653-15021	30000/0000 2-10024/0409	11/05/76	60	4136N	07726W	27.1	149.8	GGGG		
2653-15023	30000/0000 2-10024/0410	11/05/76	60	4011N	07756W	28.2	149.0	GGGG		
2653-15030	30000/0000 2-10024/0411	11/05/76	40	3846N	07824W	29.2	148.2	GGGG		
2653-15032	30000/0000 2-10024/0412	11/05/76	10	3721N	07852W	30.3	147.4	FGGG		
2653-15035	30000/0000 2-10024/0413	11/05/76	0	3555N	07920W	31.3	146.6	FGGG		
2653-15041	30000/0000 2-10024/0414	11/05/76	0	3430N	07947W	32.3	145.8	GGGG		
2653-15044	30000/0000 2-10024/0415	11/05/76	20	3305N	08013W	33.4	144.9	GGGG		
2653-15050	30000/0000 2-10024/0416	11/05/76	30	3138N	08039W	34.4	144.1	FFGF		

KEYS: CLOUD COVER X 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

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OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA	MSS GAIN
2653-15053	00000/0000 2-10024/0417	11/05/76	40	3012N	08103W	35.4	143.2	GF6F		
2653-15055	00000/0000 2-10024/0418	11/05/76	50	2846N	08127W	36.3	142.2	GF6G		
2653-15062	00000/0000 2-10024/0421	11/05/76	60	9104	08150W	37.3	141.3	GG		
2653-15064	00000/0000 2-10024/0419	11/05/76	70	9104	08213W	38.3	140.3	GGF		
2653-15071	00000/0000 2-10024/0420	11/05/76	30	9104	08237W	39.2	139.3	GF6G		
2654-15054	00000/0000 2-10024/0386	11/06/76	100	9118	07606W	21.3	153.6	GGG		
2654-15061	00000/0000 2-10024/0387	11/06/76	90	9118	07643W	22.4	152.9	FF6G		
2654-15063	00000/0000 2-10024/0388	11/06/76	90	9118	07718W	23.5	152.1	GGG		
2654-15070	00000/0000 2-10024/0389	11/06/76	90	9118	07752W	24.6	151.4	GGG		
2654-15072	00000/0000 2-10024/0390	11/06/76	70	9118	07824W	25.7	150.6	FF6G		
2654-15075	00000/0000 2-10024/0391	11/06/76	60	9118	07854W	26.8	149.9	GGF		
2654-15081	00000/0000 2-10024/0392	11/06/76	30	9118	07924W	27.9	149.1	GGF		
2654-15084	00000/0000 2-10024/0393	11/06/76	10	9118	07954W	28.9	148.3	GGG		
2654-15090	00000/0000 2-10024/0394	11/06/76	0	9118	08022W	30.0	147.6	GGG		
2654-15093	00000/0000 2-10024/0395	11/06/76	0	9118	08050W	31.0	146.7	GGG		
2654-15095	00000/0000 2-10024/0396	11/06/76	0	9118	08116W	32.1	145.9	GF6G		
2654-15102	00000/0000 2-10024/0397	11/06/76	0	9118	08141W	33.1	145.1	GGG		
2654-15104	00000/0000 2-10024/0398	11/06/76	10	9118	08206W	34.1	144.2	GGG		
2654-15111	00000/0000 2-10024/0399	11/06/76	20	9118	08230W	35.1	143.3	GF6F		
2654-15113	00000/0000 2-10024/0403	11/06/76	20	9118	08254W	36.1	142.4	GG		
2654-15120	00000/0000 2-10024/0400	11/06/76	30	9118	08317W	37.1	141.5	GGF		
2654-15122	00000/0000 2-10024/0401	11/06/76	40	9118	08340W	38.0	140.5	GGG		
2654-15125	00000/0000 2-10024/0402	11/06/76	70	9118	08402W	39.0	139.5	GGG		

KEYS: CLOUD COVER X 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MADE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

OBSERVATION ID	MICROFILM POSITION IN ROLL RBV	ROLL NO. / POSITION IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS	MSS DATA MODE GAIN
2642-20450	0000/0000	2-10024/0072	10/25/76	40	8954	6641N	14943W	10.3	165.7	PGGG	
2642-20452	0000/0000	2-10024/0073	10/25/76	40	8954	6521N	15111W	11.4	164.3	GGGG	
2642-20455	0000/0000	2-10024/0074	10/25/76	80	8954	6400N	15231W	12.6	163.0	GGGG	
2642-20461	0000/0000	2-10024/0075	10/25/76	80	8954	6238N	15345W	13.7	161.8	GGGG	
2642-20464	0000/0000	2-10024/0076	10/25/76	80	8954	6116N	15452W	14.8	160.7	GGGG	
2642-20470	0000/0000	2-10024/0077	10/25/76	90	8954	5953N	15554W	16.0	159.6	GGGG	
2642-20473	0000/0000	2-10024/0078	10/25/76	90	8954	5830N	15652W	17.1	158.6	GGGG	
2642-20475	0000/0000	2-10024/0079	10/25/76	90	8954	5707N	15745W	18.2	157.7	GGGG	
2642-20482	0000/0000	2-10024/0080	10/25/76	90	8954	5543N	15835W	19.4	156.7	GGGG	
2642-20484	0000/0000	2-10024/0081	10/25/76	80	8954	5419N	15922W	20.5	155.8	GGGG	
2642-22320	0000/0000	2-10024/0082	10/25/76	100	8955	5418N	17446E	20.5	155.8	GGGG	
2643-20504	0000/0000	2-10024/0001	10/26/76	100	8968	6641N	15106W	9.9	165.8	FFFF	
2643-20511	0000/0000	2-10024/0002	10/26/76	90	8968	6520N	15235W	11.1	164.4	FFGG	
2643-20513	0000/0000	2-10024/0003	10/26/76	70	8968	6400N	15355W	12.2	163.1	GGGG	
2643-20520	0000/0000	2-10024/0004	10/26/76	40	8968	6238N	15508W	13.4	161.9	GGGG	
2643-20522	0000/0000	2-10024/0005	10/26/76	50	8968	6116N	15616W	14.5	160.8	GGGF	
2643-20525	0000/0000	2-10024/0006	10/26/76	40	8968	5954N	15718W	15.6	159.7	GGGG	
2643-20531	0000/0000	2-10024/0007	10/26/76	50	8968	5831N	15816W	16.8	158.7	FGGG	
2643-20534	0000/0000	2-10024/0008	10/26/76	70	8968	5707N	15910W	17.9	157.7	GGGG	
2643-20540	0000/0000	2-10024/0009	10/26/76	80	8968	5544N	16000W	19.0	156.8	GGGG	
2643-20543	0000/0000	2-10024/0010	10/26/76	70	8968	5419N	16049W	20.1	155.9	GGGG	
2644-20562	0000/0000	2-10024/0099	10/27/76	50	8982	6640N	15235W	9.6	165.8	GGFF	
2644-20565	0000/0000	2-10024/0100	10/27/76	30	8982	6520N	15403W	10.7	164.4	GGFG	
2644-20571	0000/0000	2-10024/0101	10/27/76	40	8982	6359N	15523W	11.9	163.1	GGFG	
2644-20574	0000/0000	2-10024/0102	10/27/76	30	8982	6237N	15636W	13.0	161.9	GGGF	
2644-20580	0000/0000	2-10024/0103	10/27/76	10	8982	6115N	15744W	14.2	160.8	GGFF	
2644-20583	0000/0000	2-10024/0104	10/27/76	20	8982	5952N	15846W	15.3	159.8	GGFF	
2644-20585	0000/0000	2-10024/0105	10/27/76	80	8982	5830N	15944W	16.4	158.8	GGGF	
2644-20592	0000/0000	2-10024/0106	10/27/76	90	8982	5707N	16037W	17.6	157.8	GPFF	
2644-20594	0000/0000	2-10024/0107	10/27/76	70	8982	5544N	16127W	18.7	156.9	GGGG	
2644-21001	0000/0000	2-10024/0108	10/27/76	60	8982	5420N	16215W	19.8	156.0	GGGG	
2645-21020	0000/0000	2-10024/0135	10/28/76	80	8996	6640N	15402W	9.3	165.9	GGGG	
2645-21023	0000/0000	2-10024/0136	10/28/76	80	8996	6520N	15530W	10.4	164.5	GGGG	
2645-21025	0000/0000	2-10024/0137	10/28/76	60	8996	6359N	15603W	11.6	163.2	GGGG	
2645-21032	0000/0000	2-10024/0138	10/28/76	40	8996	6237N	15803W	12.7	162.0	GGGG	
2645-21034	0000/0000	2-10024/0139	10/28/76	60	8996	6116N	15910W	13.8	160.9	GGGG	

KEYS: CLOUD COVER 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

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LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

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OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	PRINCIPAL OF IMAGE LAT	PRINT ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS DATA IMAGE MODE	GAIN
2645-21041	00000/0000 2-10024/0140	10/28/76	20	5953N	16012W	15.0	159.8	GGGG
2645-21043	00000/0000 2-10024/0141	10/28/76	40	5896	16110W	16.1	158.9	GGGG
2645-21050	00000/0000 2-10024/0142	10/28/76	50	5896	16204W	17.2	157.9	GGGG
2645-21052	00000/0000 2-10024/0143	10/28/76	40	5896	16255W	18.4	157.0	GGGG
2645-21055	00000/0000 2-10024/0144	10/28/76	50	5896	16343W	19.5	156.1	GGGG
2645-21061	00000/0000 2-10024/0145	10/28/76	50	5896	16427W	20.6	155.3	GFGG
2646-21081	00000/0000 2-10024/0109	10/29/76	70	5010	15651W	10.1	164.5	FFFF
2646-21084	00000/0000 2-10024/0110	10/29/76	60	5010	15811W	11.2	163.2	FFFF
2646-21093	00000/0000 2-10024/0111	10/29/76	90	5010	16031W	13.5	161.0	FFGG
2646-21095	00000/0000 2-10024/0112	10/29/76	80	5010	16133W	14.7	159.9	FFFG
2646-21102	00000/0000 2-10024/0113	10/29/76	60	5010	16231W	15.8	158.9	FFGF
2646-21104	00000/0000 2-10024/0114	10/29/76	80	5010	16326W	16.9	158.0	GGGF
2646-21111	00000/0000 2-10024/0115	10/29/76	70	5010	16417W	18.1	157.1	GFFF
2646-21113	00000/0000 2-10024/0116	10/29/76	40	5010	16505W	19.2	156.2	FFFF
2646-21120	00000/0000 2-10024/0117	10/29/76	40	5010	16550W	20.3	155.4	GFFF
2647-21135	00000/0000 2-10024/0195	10/30/76	0	5024	15820W	9.8	164.6	GGGG
2647-21142	00000/0000 2-10024/0196	10/30/76	10	5024	15940W	10.9	163.3	FGGG
2647-21144	00000/0000 2-10024/0197	10/30/76	10	5024	16054W	12.0	162.1	GFGG
2647-21151	00000/0000 2-10024/0198	10/30/76	30	5024	16202W	13.2	161.0	GGGG
2647-21153	00000/0000 2-10024/0199	10/30/76	50	5024	16304W	14.3	160.0	GGGG
2647-21160	00000/0000 2-10024/0200	10/30/76	90	5024	16401W	15.5	159.0	GGGG
2647-21162	00000/0000 2-10024/0201	10/30/76	80	5024	16455W	16.6	158.1	FGGF
2647-21165	00000/0000 2-10024/0202	10/30/76	70	5024	16546W	17.7	157.2	GGGG
2647-21171	00000/0000 2-10024/0203	10/30/76	60	5024	16634W	18.9	156.3	GGGG
2647-21174	00000/0000 2-10024/0204	10/30/76	40	5024	16719W	20.0	155.5	FGGG
2648-21194	00000/0000 2-10024/0214	10/31/76	10	5038	15949W	9.4	164.6	GGGG
2648-21200	00000/0000 2-10024/0215	10/31/76	20	5038	16108W	10.6	163.3	GGGG
2648-21203	00000/0000 2-10024/0216	10/31/76	30	5038	16220W	11.7	162.2	FFGG
2648-21205	00000/0000 2-10024/0217	10/31/76	20	5038	16327W	12.9	161.1	GGGG
2648-21212	00000/0000 2-10024/0218	10/31/76	40	5038	16428W	14.0	160.0	GGGG
2648-21214	00000/0000 2-10024/0219	10/31/76	90	5038	16526W	15.2	159.1	GGGG
2648-21221	00000/0000 2-10024/0220	10/31/76	70	5038	16620W	16.3	158.1	GGGG
2648-21223	00000/0000 2-10024/0221	10/31/76	70	5038	16711W	17.4	157.3	GGGG
2648-21230	00000/0000 2-10024/0222	10/31/76	50	5038	16758W	18.5	156.4	GGGG
2648-21232	00000/0000 2-10024/0223	10/31/76	40	5038	16844W	19.7	155.6	GGGG
2648-21235	00000/0000 2-10024/0224	10/31/76	40	5038	16927W	20.8	154.7	GGGG

KEYS: CLOUD COVER X 0 TO 100 = X CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

17:26 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0031

OBSERVATION ID	MICROFILM ROLL NO. / POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	SWBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-DUAL RBV	MSS DATA MODE	MSS IMAGE GAIN
2649-21254	00000/0000 2-10024/0313	11/01/76	20	9052	6359N	16231W	10.3	163.4	GGGG		GGGG
2649-21261	00000/0000 2-10024/0314	11/01/76	30	9052	6238N	16343W	11.4	162.2	GGGG		GGGG
2649-21263	00000/0000 2-10024/0315	11/01/76	70	9052	6115N	16450W	12.6	161.1	GGG		GGG
2649-21270	00000/0000 2-10024/0316	11/01/76	80	9052	5953N	16553W	13.7	160.1	GGGG		GGGG
2649-21272	00000/0000 2-10024/0317	11/01/76	90	9052	5831N	16651W	14.8	159.1	G		G
2649-21275	00000/0000 2-10024/0318	11/01/76	90	9052	5708N	16746W	16.0	158.2	GGGG		GGGG
2649-21281	00000/0000 2-10024/0319	11/01/76	90	9052	5544N	16838W	17.1	157.3	GGGG		GGGG
2649-21284	00000/0000 2-10024/0320	11/01/76	90	9052	5420N	16925W	18.2	156.5	GGGG		GGGG
2649-21290	00000/0000 2-10024/0321	11/01/76	90	9052	5256N	17010W	19.4	155.6	GGGG		GGGG
2649-21293	00000/0000 2-10024/0322	11/01/76	90	9052	5132N	17053W	20.5	154.8	GGGG		GGGG
2650-21312	00000/0000 2-10024/0323	11/02/76	40	9066	6358N	16359W	9.9	163.4	GGGF		GGGF
2650-21315	00000/0000 2-10024/0324	11/02/76	30	9066	6237N	16513W	11.1	162.2	GGFG		GGFG
2650-21321	00000/0000 2-10024/0325	11/02/76	40	9066	6115N	16620W	12.2	161.2	GFG		GFG
2650-21324	00000/0000 2-10024/0326	11/02/76	30	9066	5953N	16722W	13.4	160.1	GFGG		GFGG
2650-21330	00000/0000 2-10024/0327	11/02/76	90	9066	5830N	16820W	14.5	159.2	GGGG		GGGG
2650-21333	00000/0000 2-10024/0328	11/02/76	90	9066	5707N	16915W	15.7	158.3	GGGG		GGGG
2650-21335	00000/0000 2-10024/0329	11/02/76	100	9066	5543N	17006W	15.8	157.4	GGGG		GGGG
2650-21342	00000/0000 2-10024/0330	11/02/76	100	9066	5419N	17054W	17.9	156.5	GGGG		GGGG
2650-21344	00000/0000 2-10024/0331	11/02/76	100	9066	5255N	17138W	19.0	155.7	GGFG		GGFG
2650-21351	00000/0000 2-10024/0332	11/02/76	100	9066	5131N	17221W	20.2	154.9	GGGG		GGGG
2651-21371	00000/0000 2-10024/0333	11/03/76	10	9080	6357N	16526W	9.6	163.4	GGGG		GGGG
2651-21373	00000/0000 2-10024/0334	11/03/76	60	9080	6237N	16638W	10.8	162.3	GGGG		GGGG
2651-21380	00000/0000 2-10024/0335	11/03/76	60	9080	6115N	16745W	11.9	161.2	GGGG		GGGG
2651-21382	00000/0000 2-10024/0336	11/03/76	70	9080	5952N	16847W	13.1	160.2	GGGG		GGGG
2651-21385	00000/0000 2-10024/0337	11/03/76	90	9080	5829N	16945W	14.2	159.2	GGG		GGG
2651-21391	00000/0000 2-10024/0338	11/03/76	90	9080	5706N	17039W	15.4	158.3	GGG		GGG
2651-21394	00000/0000 2-10024/0339	11/03/76	90	9080	5543N	17130W	16.5	157.5	GGGG		GGGG
2651-21400	00000/0000 2-10024/0340	11/03/76	90	9080	5419N	17217W	17.6	156.6	GGG		GGG
2651-21403	00000/0000 2-10024/0341	11/03/76	70	9080	5255N	17301W	18.8	155.8	GGGG		GGGG
2651-21405	00000/0000 2-10024/0342	11/03/76	40	9080	5131N	17344W	19.9	155.0	GGGG		GGGG
2652-21425	00000/0000 2-10024/0378	11/04/76	10	9094	6358N	16648W	9.3	163.5	GGGG		GGGG
2652-21431	00000/0000 2-10024/0379	11/04/76	60	9094	6236N	16802W	10.5	162.3	GGGG		GGGG
2652-21434	00000/0000 2-10024/0380	11/04/76	70	9094	6114N	16910W	11.6	161.2	GGGG		GGGG
2652-21445	00000/0000 2-10024/0381	11/04/76	90	9094	5706N	17206W	15.1	158.4	GGGG		GGGG
2652-21452	00000/0000 2-10024/0382	11/04/76	80	9094	5543N	17256W	16.2	157.5	GGGG		GGGG
2652-21454	00000/0000 2-10024/0383	11/04/76	90	9094	5419N	17343W	17.3	156.7	GGGG		GGGG

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=UNCOMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

17126 DEC 17, '76

LANDSAT-2
OBSERVATION ID LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0032

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV. AZIM.	IMAGE-QUAL RBV MSS DATA IMAGE MODE GAIN
2652-21461	00000/0000	2-10024/0384	11/04/76	70	9094 5255N 17428W	18.5 155.9	GGGG
2652-21463	00000/0000	2-10024/0385	11/04/76	70	9094 5131N 17510W	19.6 155.1	GGGG

KEYS: CLOUD COVER X 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT 2 COORDINATE LISTING

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LANDSAT-2
COORDINATE LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0034

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
LONG LAT				LONG LAT			
06345W 4717N	2645-14145	70	GGG	07332W 4427N	2651-14495	60	GGGG
06513W 4716N	2646-14203	90	FFGG	07337W 4555N	2649-14410	80	GGGG
06548W 4551N	2646-14210	40	GFFG	07341W 4011N	2650-14453	10	GGGG
06621W 4426N	2646-14212	50	GGGG	07351W 4716N	2652-14545	100	GGGG
06639W 4717N	2647-14262	30	GGGG	07404W 4302N	2651-14502	90	GGGG
06653W 4302N	2646-14215	50	GGGG	07404W 4430N	2649-14412	70	GGGG
06714W 4552N	2647-14264	10	GGGG	07410W 4846N	2650-14455	10	GGGG
06747W 4427N	2647-14271	10	GGGG	07426W 4551N	2652-14551	90	GGGG
06806W 4718N	2648-14320	100	GGGF	07430W 3305N	2649-14415	80	GGGG
06819W 4302N	2647-14273	10	GGGG	07435W 4137N	2651-14504	90	GGGG
06841W 4553N	2648-14322	90	GGGF	07438W 3720N	2650-14462	10	GGGG
06851W 4137N	2647-14280	10	GGGG	07439W 4840N	2653-15000	80	GGGG
06914W 4428N	2648-14325	90	GGGF	07450W 4139N	2649-14421	50	GGGG
06922W 4011N	2647-14282	10	GGGG	07459W 4426N	2652-14554	90	GGGG
06931W 4717N	2649-14374	100	GGGG	07500W 4555N	2650-14464	20	GGGG
06946W 4303N	2648-14331	100	GGGG	07506W 4012N	2651-14511	90	GGGG
07006W 4553N	2649-14380	90	GGGG	07510W 4716N	2653-15003	80	GGGG
07017W 4138N	2648-14334	90	GGGG	07531W 4301N	2652-14560	90	GGGG
07039W 4428N	2649-14383	80	GGGG	07531W 4430N	2650-14471	50	GGGG
07047W 4012N	2648-14340	90	GGGG	07535W 4846N	2651-14513	50	GGGG
07057W 4717N	2650-14432	90	GGGG	07550W 4551N	2653-15005	70	GGGG
07111W 4301N	2649-14385	60	GGGG	07557W 4304N	2650-14473	70	GGGG
07116W 3846N	2648-14343	80	GGGG	07601W 4135N	2652-14563	70	GGGG
07132W 4552N	2650-14435	80	GFGF	07602W 3721N	2651-14520	30	GGGG
07143W 4136N	2649-14392	20	GGGG	07606W 4841N	2654-15054	100	GGGG
07144W 3721N	2648-14345	70	GGGG	07622W 3139N	2650-14480	60	FGGG
07206W 4427N	2650-14441	60	GGGG	07624W 4426N	2653-15012	60	GGGG
07211W 3556N	2648-14352	70	GGGG	07629W 3556N	2651-14522	60	GGGG
07213W 4011N	2649-14394	50	FGGG	07630W 4011N	2652-14565	40	GGGG
07224W 4717N	2651-14490	90	GGGG	07643W 4716N	2654-15061	90	FFGG
07239W 4302N	2650-14444	10	GGGG	07647W 3013N	2650-14482	80	GGGG
07242W 3846N	2649-14401	80	GGGG	07656W 4301N	2653-15014	60	GGGG
07259W 4552N	2651-14493	60	GGGG	07656W 4430N	2651-14525	90	GGGG
07310W 3721N	2649-14403	90	GGGG	07659W 4846N	2652-14572	50	GGGG
07311W 4136N	2650-14450	0	GGGG	07711W 2848N	2650-14485	40	GGGG
07315W 4841N	2652-14542	100	GGGG	07718W 4552N	2654-15063	90	GGGG

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17:23 DEC 17, '76

LANDSAT-2
COORDINATE LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0035

PRINCIPAL PT. OF IMAGE	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	PRINCIPAL PT. OF IMAGE	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	PRINCIPAL PT. OF IMAGE	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
08141W	3303N	2654-15102	0	GGGG	09304W	4551N	2647-16100	30	GFFG	09607W	3721N	2647-16123	90	GGGG
08150W	2720N	2653-15062	60	GG	09308W	4551N	2644-15564	70	FGGG	09612W	3720N	2645-16040	100	GGGG
08206W	3137N	2654-15104	10	GGGG	09313W	4135N	2646-16053	90	GGGG	09625W	3138N	2646-16082	100	GGFG
08213W	2955N	2653-15064	70	GGGF	09317W	4722N	2645-16010	10	GGGG	09629W	4427N	2649-16215	10	GGGF
08230W	3012N	2654-15111	20	GFGF	09319W	4841N	2648-16145	40	GGGG	09634W	3555N	2647-16125	90	GGGG
08237W	2428N	2653-15071	30	GFGG	09333W	4136N	2644-15570	80	GGGG	09635W	2555N	2645-16042	100	GGGG
08254W	2836N	2654-15113	20	GG	09336W	4426N	2647-16102	30	GGGG	09637W	4011N	2648-16172	0	GGGG
08317W	2720N	2654-15120	30	GGGF	09341W	4556N	2645-16013	10	GGGG	09648W	4717N	2650-16264	0	GGGG
08340W	2954N	2654-15122	40	GGGG	09343W	4012N	2646-16055	90	GGGG	09649W	3013N	2646-16085	100	GGGG
08402W	2427N	2654-15125	70	GGGG	09358W	4011N	2644-15573	100	GGGG	09658W	2429N	2645-16045	90	GGGG
08734W	4841N	2644-15520	30	GGGG	09406W	4006N	2649-16201	10	GGGG	09700W	3429N	2647-16132	90	GGGG
08811W	4716N	2644-15523	50	GGGG	09408W	4302N	2647-16105	50	GGGG	09701W	4301N	2649-16221	30	GGGF
08846W	4551N	2644-15525	10	GGGG	09409W	4430N	2645-16015	50	GGGF	09706W	3845N	2648-16174	0	GGGG
08900W	4841N	2645-15574	20	GGGG	09412W	4847N	2646-16062	90	GGGF	09714W	2847N	2646-16091	100	GGGG
08920W	4427N	2644-15532	0	GGGG	09422W	2846N	2644-15575	100	GGGG	09723W	4552N	2650-16270	10	GGGG
08937W	4716N	2645-15581	40	GGFG	09430W	4552N	2648-16154	0	PGGG	09726W	3303N	2647-16134	40	FGGG
08952W	4302N	2644-15534	10	GGGG	09433W	4303N	2645-16022	80	GGGG	09732W	4136N	2649-16224	20	GGGG
09012W	4551N	2645-15583	10	GGGG	09439W	4136N	2647-16111	90	GGGG	09734W	3720N	2648-16181	0	FFGG
09023W	4137N	2644-15541	10	GGGG	09441W	4721N	2646-16064	100	GGGF	09737W	2721N	2646-16094	100	GGGG
09026W	4841N	2646-16032	80	GGGG	09443W	4841N	2649-16203	10	GGGG	09752W	3139N	2647-16141	0	GGGG
09045W	4426N	2645-15590	10	GGGG	09446W	4720N	2644-15582	100	GGGG	09756W	4427N	2650-16273	10	GGGG
09052W	4011N	2644-15543	40	GGGG	09500W	4137N	2645-16024	90	GGGG	09801W	3554N	2648-16183	10	GGGG
09103W	4717N	2646-16035	10	FFGG	09503W	4427N	2648-16160	10	GGGG	09802W	2555N	2646-16100	100	GGGG
09117W	4301N	2645-15592	0	GGGG	09508W	4555N	2646-16071	100	GGGG	09817W	4012N	2649-16230	10	GGGG
09121W	3846N	2644-15550	70	GGGG	09509W	4011N	2647-16114	90	GGGG	09827W	3013N	2647-16143	0	GGGG
09138W	4552N	2646-16041	10	GGGG	09509W	4554N	2644-15584	90	GGGG	09828W	4301N	2650-16275	0	GGGG
09148W	4137N	2645-15595	10	GGGG	09521W	4716N	2649-16210	10	GGGG	09832W	3846N	2649-16233	10	GGGG
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09152W	4841N	2647-16091	90	GGGG	09532W	4428N	2644-15591	90	GGGG	09853W	3303N	2648-16192	0	GGGG
09211W	4427N	2646-16044	20	GGGG	09534W	4430N	2646-16073	100	GGGG	09859W	4136N	2650-16282	20	GGG
09215W	3555N	2644-15555	100	GGGG	09536W	4302N	2648-16163	10	GGGG	09906W	3721N	2649-16235	0	GGGG
09217W	4012N	2645-16001	10	GGGG	09538W	4845N	2647-16120	90	GGGG	09906W	2721N	2649-16235	0	GGGG
09228W	4716N	2647-16093	70	GFGG	09543W	4552N	2645-16033	100	GGGG	09918W	3138N	2648-16152	0	GGGG
09241W	3429N	2644-15561	90	GGGG	09556W	4552N	2649-16212	10	GGGG	09918W	3138N	2648-16195	0	GGGG
09243W	4302N	2646-16050	30	GGGG	09600W	4304N	2646-16080	100	GGGG	09928W	3556N	2649-16242	0	GGGG
09245W	3847N	2645-16004	10	GGGG	09607W	4137N	2648-16165	10	GGGG	09928W	2555N	2647-16155	0	GGGG

KEYS: CLOUD COVER % 0 TO 100 % X CLOUD COVER.
IMAGE QUALITY BLANKS=BLANK NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17123 DEC 17, '76

LANDSAT-2
COORDINATE LISTING
FOR CONTIGUOUS US
FROM 11/01/76 TO 11/30/76

PAGE 0036

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS
0923W 4011N	2650-16284	80	GGGG	11615W 4841N	2646-17464	50	GGGG	12029W 4136N	2647-17543	0	GGGG	12029W 4136N	2647-17543	0	GGGG
0924W 4012N	2648-16201	0	GGGG	11634W 4827N	2645-17421	10	GGGG	12030W 3720N	2646-17500	10	GGGG	12030W 3720N	2646-17500	10	GGGG
0925W 3430N	2649-16244	10	GGGG	11643W 4011N	2644-17375	10	GGGG	12035W 4841N	2649-18035	10	GGGG	12035W 4841N	2649-18035	10	GGGG
0926W 3846N	2650-16291	70	GGGG	11652W 4717N	2646-17471	70	GGGG	12049W 4427N	2648-17592	70	GGGG	12049W 4427N	2648-17592	70	GGGG
1000W 2847N	2648-16204	0	GGGG	11703W 5005N	2647-17520	30	GGGG	12057W 3554N	2646-17503	20	GGGG	12057W 3554N	2646-17503	20	GGGG
1000W 3304N	2649-16251	0	GGGG	11704W 4302N	2645-17424	0	GGGG	12059W 4011N	2647-17545	0	GGGG	12059W 4011N	2647-17545	0	GGGG
1002W 3720N	2650-16293	10	GGGG	11711W 4845N	2644-17381	0	GGGG	12111W 4715N	2649-18041	10	GGGG	12111W 4715N	2649-18041	10	GGGG
1002W 2720N	2648-16210	10	GGGG	11721W 4552N	2646-17473	60	GGGG	12121W 4302N	2648-17594	80	GGGG	12121W 4302N	2648-17594	80	GGGG
1004W 3139N	2649-16253	10	GGGG	11738W 4136N	2645-17430	0	GGGG	12123W 3429N	2646-17505	70	GGGG	12123W 3429N	2646-17505	70	GGGG
1005W 2554N	2648-16213	50	GGGG	11739W 3719N	2644-17384	0	GGGG	12128W 3846N	2647-17552	10	GGGG	12128W 3846N	2647-17552	10	GGGG
1005W 3014N	2650-16300	0	GGGG	11742W 4841N	2647-17522	80	GGGG	12146W 4550N	2649-18044	70	GGGG	12146W 4550N	2649-18044	70	GGGG
1010W 3014N	2649-16260	10	GGGG	11800W 4427N	2646-17480	90	GGGG	12153W 4138N	2648-18001	60	GGGG	12153W 4138N	2648-18001	60	GGGG
1012W 3430N	2650-16302	0	GGGG	11805W 3554N	2644-17390	0	GGGG	12157W 3721N	2647-17554	50	GGGG	12157W 3721N	2647-17554	50	GGGG
1013W 2848N	2649-16262	30	GGGG	11807W 4010N	2645-17433	0	GGGG	12159W 4841N	2650-18093	40	GGGG	12159W 4841N	2650-18093	40	GGGG
1015W 3304N	2650-16305	0	GGGG	11818W 4010N	2647-17525	70	GGGG	12220W 4426N	2649-18050	80	GGGG	12220W 4426N	2649-18050	80	GGGG
1015W 2721N	2649-16265	70	GGGG	11828W 5005N	2648-17574	90	GGGG	12224W 4012N	2648-18003	40	GGGG	12224W 4012N	2648-18003	40	GGGG
1021W 3135N	2650-16311	0	GGGG	11831W 3429N	2644-17393	0	GGGG	12225W 3555N	2647-17561	70	GGGG	12225W 3555N	2647-17561	70	GGGG
1023W 3012N	2650-16314	0	GGGG	11832W 4301N	2646-17482	60	GGGG	12236W 4717N	2650-18095	90	GGGG	12236W 4717N	2650-18095	90	GGGG
1025W 2846N	2650-16320	10	GGGG	11836W 3845N	2645-17435	0	GGGG	12252W 4302N	2649-18053	90	GGGG	12252W 4302N	2649-18053	90	GGGG
1032W 2720N	2650-16323	0	GGGG	11853W 4552N	2647-17531	50	GGGG	12254W 3847N	2648-18010	20	GGGG	12254W 3847N	2648-18010	20	GGGG
1124W 5005N	2644-17345	70	GGGG	11903W 4135N	2646-17485	40	GGGG	12311W 4552N	2650-18102	90	GGGG	12311W 4552N	2650-18102	90	GGGG
1132W 4841N	2644-17352	70	GGGG	11904W 3720N	2645-17442	0	GGGG	12322W 3721N	2648-18012	20	GGGG	12322W 3721N	2648-18012	20	GGGG
1140W 4716N	2644-17354	50	GGGG	11906W 4841N	2648-17580	90	GGGG	12324W 4137N	2649-18055	70	GGGG	12324W 4137N	2649-18055	70	GGGG
1141W 5006N	2645-17403	40	GGGG	11926W 4426N	2647-17534	60	GGGG	12345W 4427N	2650-18104	80	GGGG	12345W 4427N	2650-18104	80	GGGG
1143W 4551N	2644-17361	10	GGGG	11931W 3554N	2645-17444	0	GGGG	12354W 4011N	2649-18062	60	GGGG	12354W 4011N	2649-18062	60	GGGG
1145W 4841N	2645-17410	20	GGGG	11933W 4011N	2646-17491	40	GGGG	12417W 4301N	2650-18111	70	GGGG	12417W 4301N	2650-18111	70	GGGG
1150W 4426N	2644-17363	10	GGGG	11942W 4716N	2648-17583	70	GGGG	12423W 3846N	2649-18064	50	GGGG	12423W 3846N	2649-18064	50	GGGG
1152W 4716N	2645-17412	10	GGGG	11956W 5005N	2649-18032	20	GGGG	12448W 4137N	2650-18113	70	GGGG	12448W 4137N	2650-18113	70	GGGG
1153W 5005N	2646-17462	60	GGGG	11957W 3429N	2645-17451	0	GGGG	12451W 3720N	2649-18071	80	GGGG	12451W 3720N	2649-18071	80	GGGG
1154W 431N	2644-17370	10	GGGG	11958W 4301N	2647-17540	40	GGGG	12517W 4011N	2650-18120	50	GGGG	12517W 4011N	2650-18120	50	GGGG
11601W 4551N	2645-17415	10	GGGG	12002W 3846N	2646-17494	20	GGGG	12518W 3555N	2649-18073	90	GGGG	12518W 3555N	2649-18073	90	GGGG
11613W 4136N	2644-17372	10	GGGG	12016W 4552N	2648-17585	70	GGGG								

KEYS: CLOUD COVER % 0 TO 100 % X CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17:26 DEC 17, '76

LANDSAT-2
COORDINATE LISTING
FOR ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0037

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678
LONG LAT				LONG LAT				LONG LAT			
17446E 5418N	2642-22320	100	GGGG	1600W 544N	2643-20540	80	GGGG	16620W 6115N	2650-21321	40	GGG
14943W 6641N	2642-20450	40	PGGG	16012W 5953N	2645-21041	20	GGGG	16620W 5707N	2648-21221	70	GGGG
15106W 6641N	2643-20504	100	FFFF	16031W 6116N	2646-21093	90	FGFG	16634W 5419N	2647-21171	60	GGGG
15111W 6621N	2642-20452	40	GGGG	16037W 5707N	2644-20592	90	GPGF	16638W 6237N	2651-21373	60	GGGG
15231W 6400N	2642-20455	80	GGGG	16049W 5419N	2643-20543	70	GGGG	16648W 6358N	2652-21425	10	GGGG
15235W 6640N	2644-20562	50	GFFF	16054W 6237N	2647-21144	10	GGGG	16651W 5831N	2649-21272	90	GGG
15235W 6520N	2643-20511	90	FFGG	16108W 6358N	2648-21200	20	GGGG	16711W 5544N	2648-21223	70	GGGG
15345W 6238N	2642-20461	80	GGGG	16110W 5829N	2645-21043	40	GGGG	16719W 5255N	2647-21174	40	FGGG
15355W 6400N	2643-20513	70	GGGG	16127W 5544N	2644-20594	70	GPGG	16722W 5953N	2650-21324	30	FGGG
15402W 6640N	2645-21020	80	GGGG	16134W 5953N	2646-21095	80	FFGG	16745W 6115N	2651-21380	60	GGGG
15403W 6520N	2644-20565	30	GGFG	16202W 6116N	2647-21151	30	GGGG	16746W 5708N	2649-21275	90	GGGG
15452W 6116N	2642-20464	80	GGGG	16204W 5706N	2645-21050	50	GGGG	16758W 5420N	2648-21230	50	GGGG
15508W 6238N	2643-20520	40	FGGG	16212W 5420N	2644-21001	60	GGGG	16802W 6236N	2652-21431	60	GGGG
15523W 6359N	2644-20571	40	GGFG	16220W 6237N	2648-21203	30	FGFG	16820W 5830N	2650-21330	90	GGGG
15530W 6520N	2645-21023	80	GGGG	16231W 6359N	2649-21254	20	GGGG	16833W 5544N	2649-21281	90	GGGG
15554W 5953N	2642-20470	90	GGGG	16231W 5831N	2646-21102	60	FFGG	16844W 5256N	2648-21232	40	GGGG
15616W 6116N	2643-20522	50	GGGF	16255W 5543N	2645-21052	40	GGGG	16847W 5952N	2651-21382	70	GGGG
15636W 6237N	2644-20574	30	GGGF	16304W 5953N	2647-21153	50	GGGG	16910W 6114N	2652-21434	70	GGGG
15650W 6359N	2645-21025	60	GGGG	16326W 5707N	2646-21104	80	GGGF	16915W 5707N	2650-21333	90	GGGG
15651W 6520N	2646-21081	70	FFFF	16327W 6115N	2648-21205	20	GGGG	16926W 5420N	2649-21284	90	GGGG
15652W 5830N	2642-20473	90	GGGG	16449W 6238N	2649-21261	30	GGGG	16927W 5131N	2648-21235	40	GGGG
15718W 5954N	2643-20525	40	GGGG	16449W 5419N	2645-21055	50	GGGG	16945W 5829N	2651-21385	90	GGG
15744W 6115N	2644-20580	10	GFFF	16459W 6358N	2650-21312	40	GGGG	17006W 5543N	2650-21335	100	GGGG
15745W 5707N	2642-20475	90	GGGG	16461W 5830N	2647-21160	90	GGGG	17010W 5256N	2649-21290	90	GGGG
15803W 6237N	2645-21032	40	GGGG	16471W 5543N	2646-21111	70	GFFF	17039W 5706N	2651-21391	90	GGG
15811W 6359N	2646-21084	60	FFFF	16472W 5255N	2645-21061	50	FGGG	17053W 5132N	2649-21293	90	GGGG
15816W 5831N	2643-20531	50	FGGG	16478W 5953N	2648-21212	40	GGGG	17054W 5419N	2650-21342	100	GGGG
15820W 6519N	2647-21135	0	GGGG	16480W 6115N	2649-21263	70	GGG	17130W 5543N	2651-21394	90	GGGG
15835W 5543N	2642-20482	90	GGGG	16485W 5707N	2647-21162	80	FGGF	17138W 5255N	2650-21344	100	GGFG
15846W 5952N	2644-20583	20	GFFF	16485W 5420N	2646-21113	40	FFFF	17206W 5706N	2652-21445	90	GGGG
15910W 6116N	2645-21034	60	GGGG	16485W 6237N	2650-21315	30	GGFG	17217W 5419N	2651-21400	90	GGG
15910W 5707N	2643-20534	70	GGGG	16485W 6357N	2651-21371	10	GGGG	17221W 5131N	2650-21351	100	GGGG
15922W 5419N	2642-20484	80	GGGG	16485W 5830N	2648-21214	90	GGGG	17256W 5543N	2652-21452	80	GGGG
15940W 6359N	2647-21142	10	FGGG	16485W 5544N	2647-21165	70	GGGG	17301W 5255N	2651-21403	70	GGGG
15944W 5830N	2644-20585	80	GFFF	16485W 5256N	2646-21120	40	GFFF	17343W 5419N	2652-21454	90	GGGG
15949W 6519N	2648-21194	10	GGGG	16485W 5953N	2649-21270	80	GGGG	17344W 5131N	2651-21405	40	GGGG

KEYS: CLOUD COVER % 0 TO 100 % X CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

17126 DEC 17, '76

LANDSAT-2
COORDINATE LISTING
FBI ALASKA
FROM 11/01/76 TO 11/30/76

PAGE 0038

PRINCIPAL PT. OF IMAGE LONG LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	PRINCIPAL PT. OF IMAGE LONG LAT	OBSERVATION ID	CC %	QUALITY RBV MSS
17428W 5255N	2652-21461	70	GGGG	17510W 5131N	2652-21463	70	GGGG

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

QUALITY
RBV MSS
12345678

APPENDIX

EXPLANATION OF OBSERVATION ID

The day after the 999th day of operation of LANDSAT 1, the first digit of the observation ID becomes a 5, signifying that the 1000th day of operation has been reached. The next three digits, which correspond to the count of days since launch, return to 000. On each day thereafter the count, as before, increases by one. The ID format for LANDSAT 1 is illustrated below:

1000 - hhmmms	
--	
--	
1998 - hhmmms	April 18, 1975
1999 - hhmmms	April 19, 1975
5000 - hhmmms	
5001 - hhmmms	(Days since launch equal 1001)
--	
--	

The same general identification procedure will be used for LANDSAT 2 imagery. The day after the 999th day of operation of LANDSAT 2, the first digit of the observation ID becomes a 6, and the next three digits return to 000 as explained above. An illustration follows:

2000 - hhmmms		
--		
--		
2999 - hhmmms		Key: hh = hours
6000 - hhmmms		mm = minutes
6001 - hhmmms	(Days since launch equal 1001)	s = tens of seconds
--		
--		